

### **EULP96-1W24V**

## Summary

EULP96-1W24V-WS is a constant voltage output LED driver.

The compact body is easy to install in small spaces, with stable output and high efficiency.

### **Product Feature**

- · Supply Voltage: 120-277Vac
- · Protection: Short circuit, Overload, Overcurrent, Over-temperature
- · 50,000Hour Life @ tc 85℃
- · Class 2 output
- Safety according to UL8750 &UL 1310
- · Suitable for Dry , Damp Locations
- · Suitable for indoor LED lighting applications











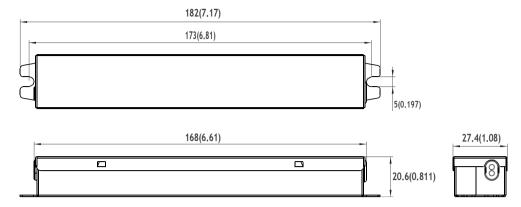


## **Technical Parameters**

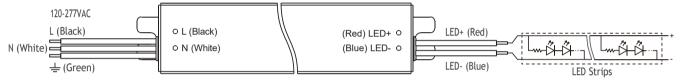
Model	EULP96-1W24V				
	Voltage	120-277 Vac			
	Frequency Range(Hz)	50/60Hz			
	Efficiency	≥91%@120VAC \ ≥93%230VAC,277VAC			
	PF	>0.95@120V \ 230V \ 277V   full load			
Input	Current	1.1Amax @120VAC			
	THD	<10%@full load			
	Inrush current	Cold start,26.4A@120VAC 196us, 59.6A@277VAC 196uS			
	No load power	≤0.5W			
	Turn on delay Time	≤0.75S			
	Channel	1			
	Voltage	24V			
	Current	4A			
output	Output Voitage	24V±3%			
	Power	96W			
	Ripple Voitage	≤240mV(p-p)			
	No load output voltage	24.7V max			
	Overload	Hiccup Protection, Auto-recovery after Fault Clearance			
	Short circuit	Hiccup Protection, Auto-recovery after Fault Clearance			
Protection	Overcurrent	Hiccup Protection, Auto-recovery after Fault Clearance			
	Over-temperature	Built-in temperature sensor: If the internal temperature exceeds the rated set value (100°C), the drive will enter a protective state (output derated by 50%).  When the temperature returns to normal, the drive resumes normal output.			
	Surg	L-N 4KV ; L-N-PG 4KV			
	Withstand Voltage	I/P-O/PI:3000Vac/1min/<5mA, I/P-G:1800Vac/1min/<5mA · O/P-G:500Vac/1min/<5mA			
Safety&EMC	Safety standards	UL8750, UL1310 · EN61347-1,EN61347-2-13			
	EMC Eission	EN55015, FCC PART15 ClassB			
	Insulation Resisance	5Mfi			
	Dimension	182*27.4*20.6			
	Packing size	EULP96-1W24V individual weight 208g (± 5%), packed in a box of 60 pieces			
	Working temp.	ta:-40~+60°ℂ,			
	tc	90°C @120Vac			
	Storage Temp., Humidity	-40°C-85°C, 20-90%RH			
Others	Lifetime	50,000h@tc:85°C			
	Warranty	5years			
	IP rating	IP20			
	Material	Metal			
	Switch cycle	>25000 times			



## Dimension: mm (Inch)



## Wiring Diagram

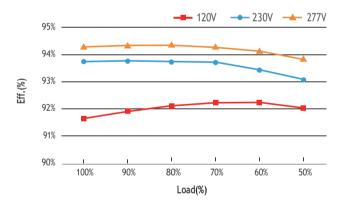


#### Metal case

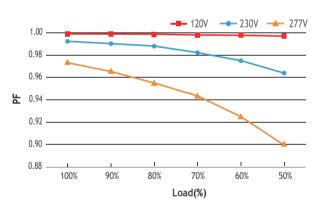
All material to be ROHs compliant to Directive 2002/95/EC

Wires to be Stranded with UL approval Input: Black & White: 200mm , 18AWG Output: Red & Blue: 200mm , 18AWG

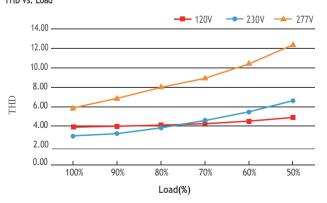
#### Efficiency vs. Load



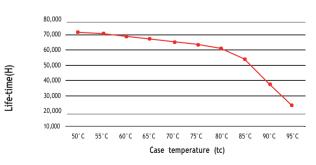
#### PF vs. Load



# THD vs. Load



Life-time vs. case temperature

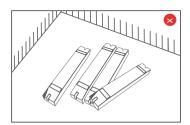


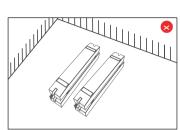
The life-time of the led driver is shown in the figure above (calculated based on the 90% survival rate).

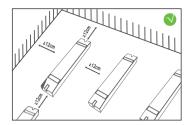
The relation of tc ta temperature depends also on the luminaire design.



## **Installation Precautions**







Please do not stack the products. The distance between two products should be>12cm so as not to affect heat dissipation and the lifespan of the products.

# Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Value	Condition	
Inrush current Ipeak	26.4A (120V)	59.6A (277V)	Input Voltage120V/277V	
Inrush current Twidth	196us (120V)	196us (277V)	Input Voltage120V/277V, measured ta 50% Ipeak	

МСВ	Input Voltage 120V Drivers	Input Voltage 277V Drivers	МСВ	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	9pcs	6pcs	C10	9pcs	11pcs
B13	11pcs	9pcs	C13	11pcs	15pcs
B16	14pcs	11pcs	C16	14pcs	18pcs
B20	18pcs	13pcs	C20	18pcs	23pcs
			D16	14pcs	35pcs

#### Cautions

Thi	This product must be installed and adjusted by a qualified professional.				
1	Confirmation of installation conditions	<ul> <li>Waterproof and Protection: Install in a suitable location according to the waterproof and protection requirements of the power supply.</li> <li>Products without waterproof function should be protected from direct sunlight and rain. When installing outdoors, please use a waterproof box for protection.</li> <li>Heat dissipation requirements: The drive power supply should avoid exposure to high temperature environments. Please ensure that the working environment temperature is within the recommended range. To ensure proper heat dissipation of the drive power supply, a well ventilated area should be selected for installation. Good heat dissipation conditions can help extend product lifespan.</li> </ul>			
2	Power check	· Before use, check the product parameters and confirm that the output voltage and current of the LED power supply meet the requirements			
3	Safe wiring	· Use cables that meet the specifications to ensure that the cross-section of the wire matches the requirements of the driving power supply. Solid cables typically measuring 0.75-2.5 mm <sup>2</sup> , (Please refer to the silk screen printing or wiring diagram in the instruction manual for specific wire diameter requirements).  • If the power supply (metal casing) is installed on a grounded lighting component or equipment, the power supply needs to be grounded.			
4	Wiring confirmation	· Before power on debugging, ensure that the wiring is secure and avoid poor contact to prevent unstable current or equipment damage.			
5	Repair suggestions	· If the product malfunctions, please do not repair it without authorization. If you have any questions, please contact the supplier or sales team for assistance.			

<sup>\*\*</sup> The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions, the function of the product shall prevail.
Please contact us if you have any questions.

#### Warranty Agreement

- 1. Warranty periods from the date of delivery: 5 years.
- $\hbox{\it 1. Free repair or replacement services for quality problems are provided within warranty periods.}\\$

## Warranty exclusions below:

The following situations are not covered by the free warranty or replacement service:

- 1. Exceeding the warranty period.
- 2. Damage caused by human factors such as high voltage, overload, and improper operation.
- 3. The appearance of the product is severely damaged or deformed.
- $\ensuremath{\mathsf{4}}.$  Normal wear and tear or aging during regular product use.
- 5. Damage caused by natural disasters or force majeure factors.
- 6. The quality inspection label of the product is damaged (QC PASS).
- 7. No contract or valid invoice proof signed with EUCHIPS has been provided.

\*\*Remedies: Repair or replacement is the only remedy provided by EUCHIPS to the customer, and EUCHIPS shall not be liable for incidental damages arising from repair or replacement, unless within the scope of applicable law.

\*Adjustment of Warranty Terms: EUCHIPS reserves the right to modify or adjust the warranty terms, which shall be published in writing.

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