

EULP40-1W24V-WS

Summary

EULP40-1W24V-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 Features

- Supply Voltage: 108-305Vac
- Protection: Short-circuit, Over load, Over Current
- 50,000Hour Life @ Tc=80°C
- 5 Year Warranty @ Tc<=80 °C
- Suitable for indoor LED lighting applications
- UL Class P, Class 2
- Safety according to UL8750 & UL 1310

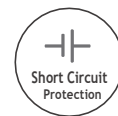
Application



LED Strip Light



Flicker free



Short Circuit Protection



Over Load Protection

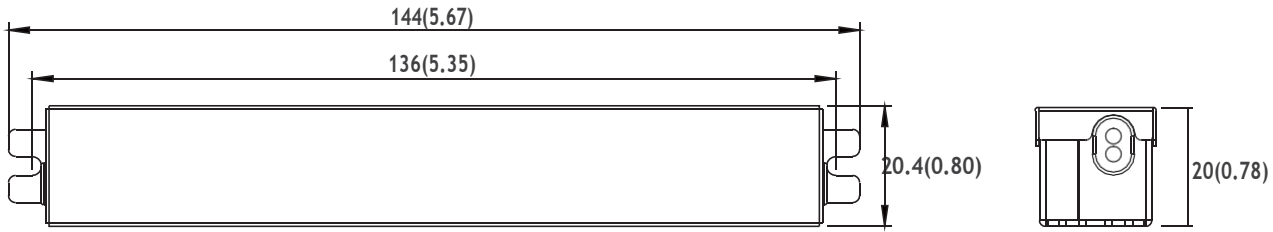


Over Current Protection

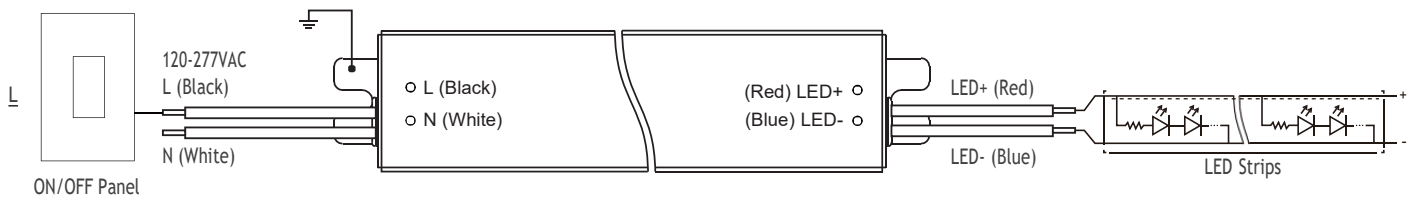
Technical Parameters

Model	EULP40-1W24V-WS	
Input	Efficiency	>90%@120VAC, full load >91%@277VAC, full load
	Rated Voltage	120-277VAC
	Voltage Range	108-305VAC
	Frequency Range(Hz)	50/60Hz
	Current	0.50Amax@120VAC 0.30Amax@230VAC 0.20Amax@277VAC
	Power Factor	≥0.95@120VAC, full load ≥0.9@277VAC, full load
	THD(full load)	<10%@120VAC <15%@277VAC
	Inrush Current(max)	Cold start, 15A@120VAC 160us 34A@277VAC 200us
Output	Current Range	1.67A
	Voltage Range	24VDC
	Output Power	40W Max
	Channel	1
	Voltage Tolerance	±5%
	No load power	<1W(Hop)
	Power limit	≤140%
	Ripple	≤960mV
	Turn on delay Time	≤0.75s, @120Vac (When the light begins to shine)
Protection	Short-circuit	No output, self recovery after troubleshooting
	Over load	No output, self recovery after troubleshooting
	Over Current	No output, self recovery after troubleshooting
Safety& EMC	Surge	L-N: 2kV L&N-G: 2kV ring wave
	Withstand Voltage	I/P-O/PI:2000Vac/1min/<5mA, I/P-G:1500Vac/1min/<5mA, O/P-G:500Vac/1min/<5mA
	Safety Standards	UL8750 UL1310 CSA25013.CSA Class P
	EMC Eission	FCC PART15B
	EMC Immunity	IEC 61000-4-2-3-4-5-6-8-11
	Insulation Resistance	5MΩ
Others	Working Temp.	-20-+50°C [-4°F-122°F]
	Storage Temp., Humidity	-40-+90°C [-40°F-194°F]
	tc	80°C [176°F]
	Material	Metal
	IP Rating	IP20
	Lifetime	50,000h@tc:80°C [176°F]
	Warranty Condition	5years
	Switch Cycle	>25,000 times
	Dimension	144*20.4*20mm (5.67*0.80*0.78 Inch) (L*W*H)
	Packing(weight)	Net weight: 120g(0.26 lb)±5%/PCS; 50PCS/Carton; 6.5kg(14.3 lb)±5%/Carton; Carton Size:320*225*175mm(L*W*H)

Dimension: mm (Inch)



Wiring Diagram



Metal case

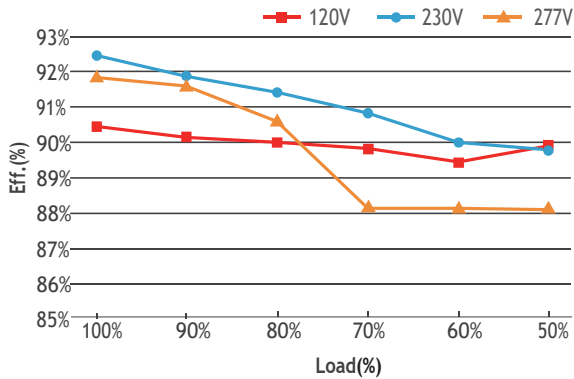
All material to be ROHs compliant to Directive 2002/95/EC

Wires to be Stranded with UL approval

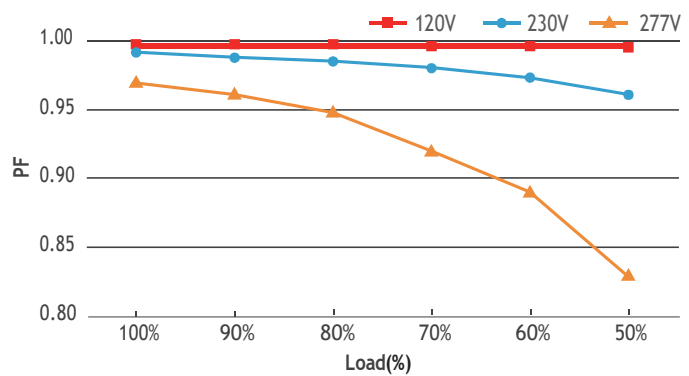
Input: Black & White: 200mm , 18AWG Output:

Red & Blue: 200mm , 18AWG

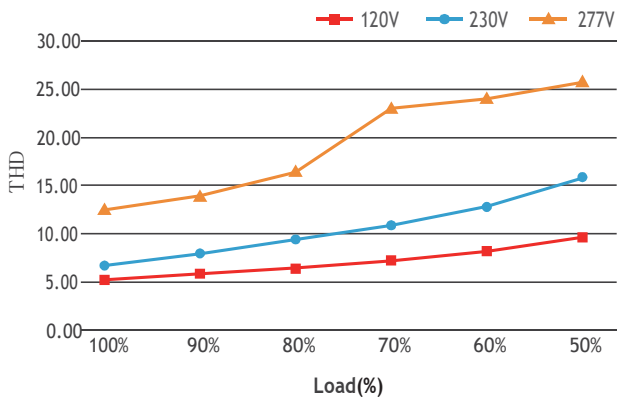
Efficiency vs. Load



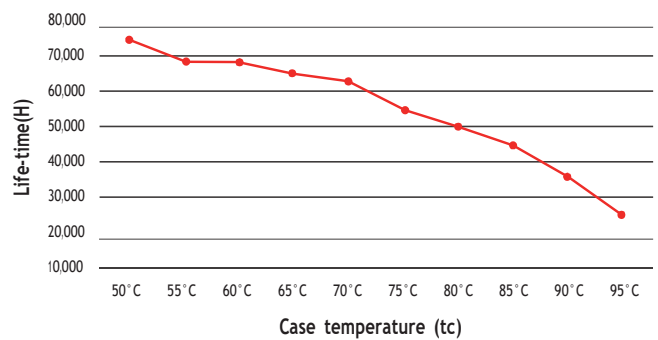
PF vs. Load



THD vs. Load



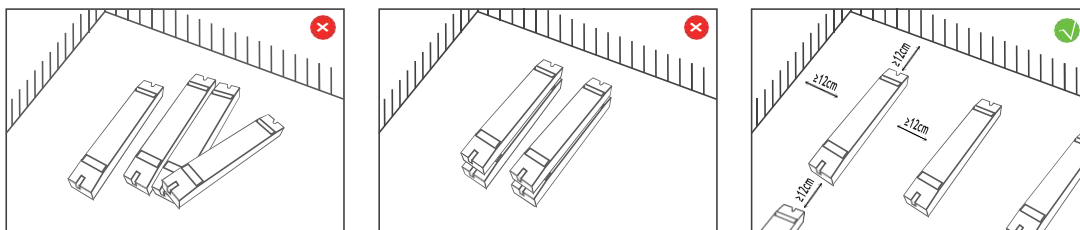
Life-time vs. case temperature



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

The relation of t_c t_a temperature depends also on the luminaire design.

Installation Precautions



Please do not stack the products. The distance between two products should be $\geq 12\text{cm}$ 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 I_{peak}	15A (120V)	34A (277V)	Input Voltage 120V/277V
Inrush current T_{width}	160us (120V)	200us (277V)	Input Voltage 120V/277V, measured ta 50% I_{peak}

MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	20pcs	12pcs	C10	20pcs	20pcs
B13	26pcs	15pcs	C13	26pcs	26pcs
B16	32pcs	19pcs	C16	32pcs	32pcs
B20	40pcs	24pcs	C20	40pcs	40-pcs
			D16	32pcs	64pcs

Cautions

1. This product must be installed and adjusted by a qualified professional.
2. This product is non waterproof, need to avoid sun and rain. In case of outdoor use, please ensure it is mounted in a water proof enclosure.
3. Good heat dissipation conditions extend product life. Please install the product in a well-ventilated environment.
4. Please make sure LED power supply output voltage, current is used to meet the product requirements.
5. Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
6. Due to safety concerns, PVC or rubber cord of 0.75- 2.5mm² is recommended for input and output terminal(s)(excluding signal terminals). Flat power cord is not suitable. Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
7. In case of malfunction, do not repair it yourself.

※ 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.
2. Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

1. Beyond warranty periods.
2. Any artificial damage caused by high voltage, overload, or improper operations
3. Products with severe physical damage.
4. Damage caused by natural disasters and force majeure.
5. Warranty labels and barcodes have been damaged.
6. No any contract signed by EUCHIPS.

· Repair or replacement provided is the only remedy for customers. EUCHIPS is not liable for any incidental or consequential damage unless it is within the law.
 · EUCHIPS has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.