

EULP60-1W12V

Summary

EULP60-1W12V 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, Over load, Over Current, Over Temperature
- · 50,000Hour Life @tc=70°C
- · 5 Year Warranty
- · Safety according to UL8750
- · Suitable for Dry , Damp Locations
- · Suitable for indoor LED lighting applications



LED Strip Light









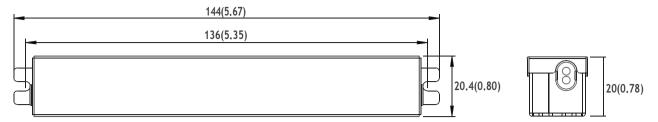


Technical Paramaters

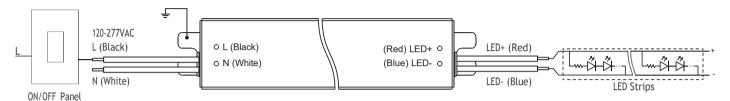
Model	EULP60-1W12V				
Input	Efficiency	>88%@120VAC, full load			
	Rated Voltage	120-277VAC			
	Frequency Range(Hz)	50/60Hz			
	Electric current	0.70Amax@120VAC			
	Power Factor	≥0.95@120VAC, full load			
	THD	<20%@120VAC, full load			
	Inrush Current(max)	14.8A@120VAC,1.6US 26A@277VAC,1.56US			
	Standby power	<2.5W [@120VAC]			
	No load power	<2.5W [@120VAC]			
	Turn on Time	<0.5S [@120VAC, When the light begins to shine]			
	Output Current	5A			
	Output Voltage	12VDC			
	Voltage range	12VDC±5%			
	Output Power Range	60W			
Output	Channel	1			
	Over power limit	≥130%			
	Ripple Voltage	≤600mv			
	frequency	20KHz PWM			
	Short-circuit	Hiccup Protection, Auto-recovery after Fault Clearance			
Protection	Over load	Hiccup Protection, Auto-recovery after Fault Clearance			
Protection	Overcurrent	Hiccup Protection, Auto-recovery after Fault Clearance			
	Over Temperature	Hiccup Protection, Auto-recovery after Fault Clearance			
	Surge	L-N:2000VAC, L-N-PG:2000VAC			
Safety&	Withstand Voltage	I/P-O/PI:2000Vac/1min/<5mA, I/P-G:1500Vac/1min/<5mA, O/P-G:500Vac/1min/<5mA			
EMC	Safety standard	UL8750 listed Class 2			
	EMC	FCC PART15 class A			
	Insulation Resisance	5MΩ			
	Working Temp.	[-20-+50]°C [-4°F-122°F]			
	Storage Temp., Humidity	[-40~+85]°C [-40°F-185°F] 5~90%RH			
	tc Material	90°C [194°F] Metal			
Others	IP Rating	IP20			
others	Lifetime	50000h, @tc:70°C [158°F]			
	Warranty Condition	5years			
	Switch Cycle	25000times			
	Packing(weight)	Net weight:120g			
	Dimension	144*20.4*20mm(L*W*H)			



Dimension: mm (Inch)



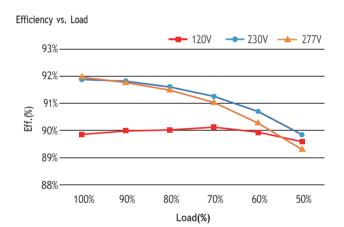
Wiring Diagram

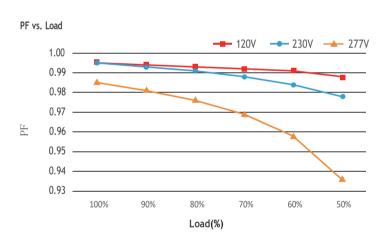


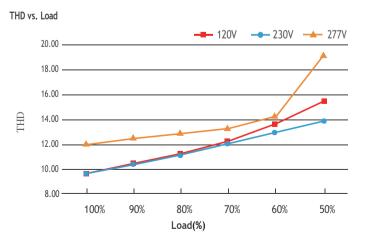
Metal case

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

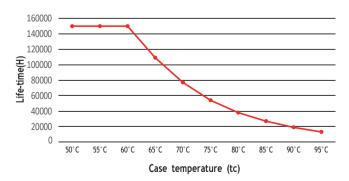
Wires to be Stranded with UL approval Input: Black & White: 200mm, 18AWG
Output: Red & Blue: 200mm, 18AWG







Life-time vs. case temperature

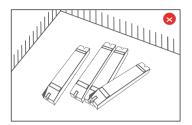


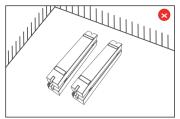
The life-time of the led driver is shown in the figure above (calculated based on the 90% survival rate).

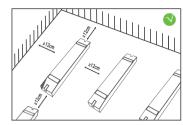
The relation of tc ta temperature depends also on the luminaire design.



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	14.8A (120V)	26A (277V)	Input Voltage120V/277V	
Inrush current Twidth	1.6us (120V)	1.56us (277V)	Input Voltage120V/277V, measured ta 50% Ipeak	

МСВ	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	14pcs	33pcs	C10	14pcs	33pcs
B13	18pcs	43pcs	C13	18pcs	43pcs
B16	22pcs	53pcs	C16	22pcs	83pcs
B20	28pcs	66pcs	C20	28pcs	66pcs
			D16	22pcs	53pcs

Cautions

Thi	This product must be installed and adjusted by a qualified professional.				
1	Confirmation of installation conditions	 Waterproof and Protection: Install in a suitable location according to the waterproof and protection requirements of the power supply. Products without waterproof function should be protected from direct sunlight and rain. When installing outdoors, please use a waterproof box for protection. 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. 			
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 ² , (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.			

^{**} 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:

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

- 1. Exceeding the warranty period.
- $\ensuremath{\text{\footnote{1.5}}}$ Damage caused by human factors such as high voltage, overload, and improper operation.
- $\ensuremath{\mathtt{J}}.$ The appearance of the product is severely damaged or deformed.
- $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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