

## EULP60-1W48V-S

### Product Feature

- Input voltage range :120-277Vac
- Protection:Short-circuit, Over load, Over Current, Over Temperature
- Lifespan: 50,000 hours @ tc 75°C
- Class 2 output
- Complies with UL8750 and UL 879 safety standards
- It is suitable for both dry and damp places
- It is suitable for indoor LED lighting applications



### Application



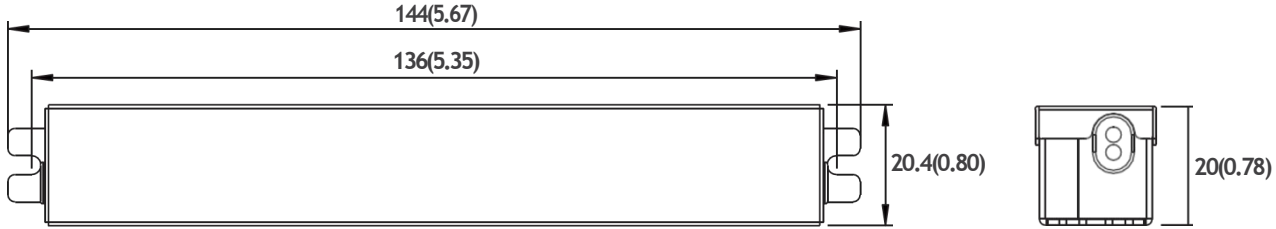
LED Strip Light



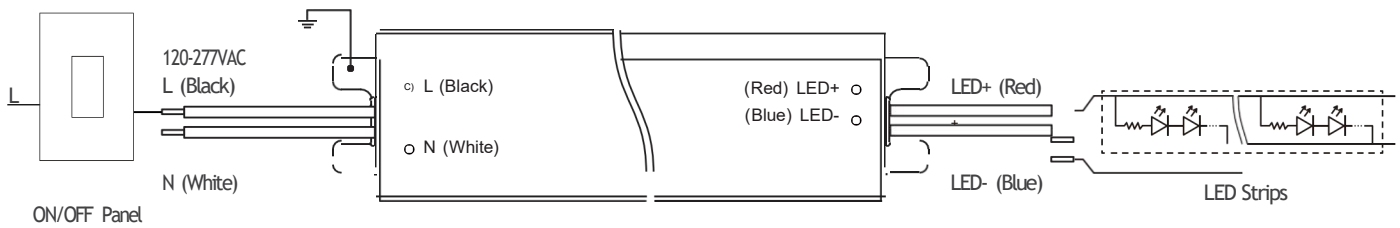
### Technical Parameters

| Model      | EULP60-1W48V-S            |  |
|------------|---------------------------|--|
| Input      | Efficiency                | ≥88.5%@120VAC, ≥91%@277VAC, Full load  |
|            | Voltage                   | 120-277 VAC  |
|            | Frequency Range(Hz)       | 50/60Hz  |
|            | Current                   | 0.70Amax @120VAC , 0.40Amax @230VAC , 0.30Amax@277VAC  |
|            | PF                        | >0.95@120V-277AC , Full load   |
|            | THD                       | <20%@From 100% to 60% of rated power   |
|            | Inrush current            | Cold start , 19.9A@120VAC, 1.48US 49.2A@277VAC, 1.48US   |
|            | Standby power consumption | ≤2.5W@120VAC   |
|            | No load power             | ≤2.5W@120VAC   |
|            | Turn on delay Time        | <0.5s, at120VAC (When the light begins to shine)   |
| output     | Current                   | 1.25A  |
|            | Voltage                   | 48VDC  |
|            | Output Voltage            | 48VDC±5%   |
|            | Power                     | 60W  |
|            | Channel                   | 1  |
|            | Over power limit          | ≥130%  |
|            | Ripple Voltage            | ≤600mV   |
| Protection | Short-circuit             | Hiccup Protection, Auto-recovery after Fault Clearance   |
|            | Over load                 | Hiccup Protection, Auto-recovery after Fault Clearance   |
|            | Overcurrent               | Hiccup Protection, Auto-recovery after Fault Clearance   |
|            | Over Temperature          | Hiccup Protection, Auto-recovery after Fault Clearance   |
| Safety&EMC | Surge                     | L-N:2000VAC, L-N-PG:2000VAC  |
|            | Withstand Voltage         | I/P-O/P:2000Vac/1min/<5mA, I/P-G:1500Vac/1min/<5mA, O/P-G:500Vac/1min/<5mA                                       |
|            | Safety standard           | UL8750 listed Class 2  |
|            | EMC                       | FCC PART15 ClassA  |
|            | Insulation Resistance     | 5M fi  |
| Others     | Dimension                 | 144*20.4*20mm (5.66*0.80*0.787Inch) (L*W*H)  |
|            | Packing size              | Net weight: 120g(0.26 lb)±5%/PCS; 60PCS/Cartron; 7.7kg(16.98 lb)±5%/Cartron; Cartron Size: 313*197*154mm (L*W*H) |
|            | Working temp              | ta:-20~+50°C , (-4°F-122°F)  |
|            | tc                        | 90°C (194°F)   |
|            | Storage Temp Humidity     | -40°C ~85°C (-40°F-185°F) , 5-90%RH  |
|            | Lifetime                  | 50,000h@tc:75°C (167°F)  |
|            | 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

**Mounting Instructions:**

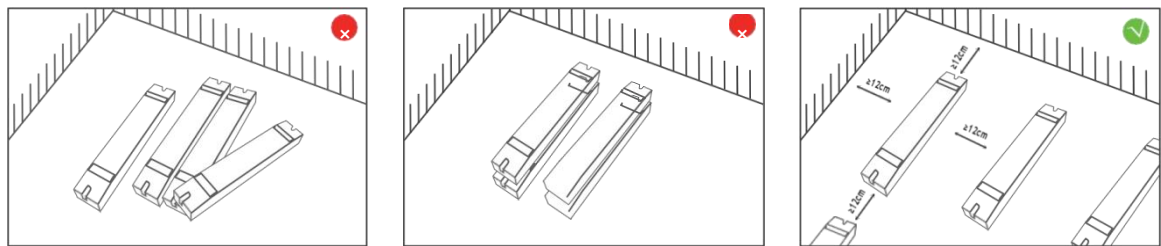
The EULP60-1W48V-S driver chassis must be fixed to a flat surface through two installation labels as shown in the above figure. It is recommended to install the EULP60-1W48V-S on a metal base with a size of no less than 150 × 50 × 2mm (5.91 × 1.97 × 0.08 inches).

**Max. quantity of drivers per miniature circuit breaker**

| Specification item         | Value         | Value         | Condition   |
|----------------------------|---------------|---------------|---|
| Inrush current $I_{peak}$  | 19.9A (120V)  | 49.2 (277V)   | Input Voltage 120V/277V                             |
| Inrush current $T_{width}$ | 1.48us (120V) | 1.48us (277V) | Input Voltage 120V/277V, measured ta 50% $I_{peak}$ |

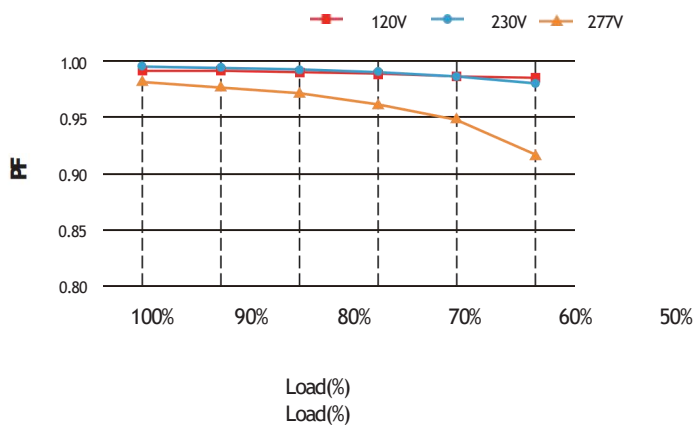
| MCB | Input Voltage 120V Drivers | Input Voltage 277V Drivers | MCB | Input Voltage 120V Drivers | Input Voltage 277V Drivers |
|-----|----------------------------|----------------------------|-----|----------------------------|----------------------------|
| B10 | 14pcs                      | 33pcs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

**Installation Precautions**

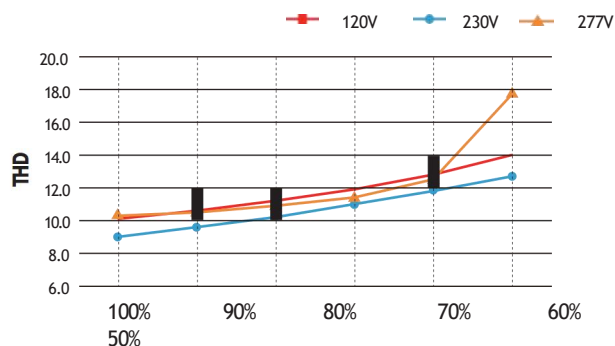


Please do not stack the products. The distance between two products should be >12cm so as not to affect heat dissipation and the lifespan of the products.

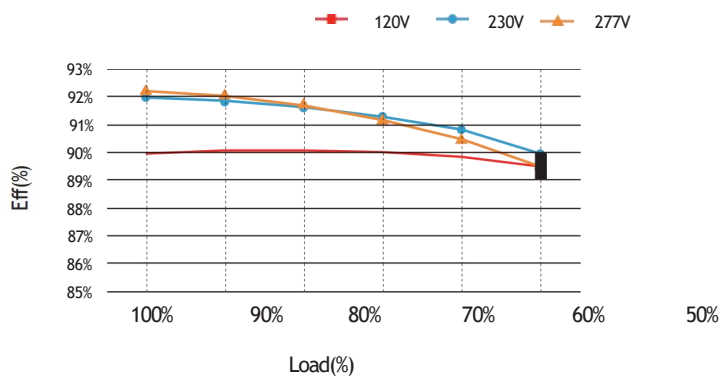
**PF vs. Load**



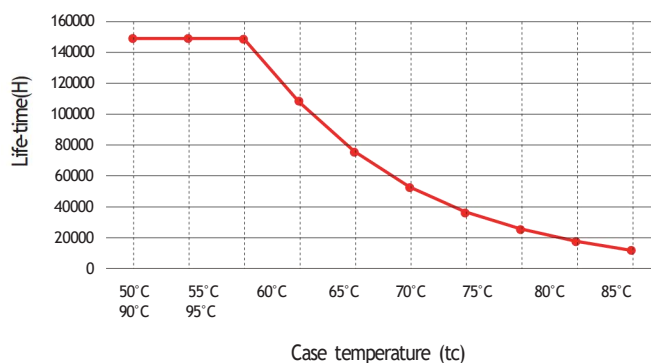
**THD vs. Load**



**Efficiency vs. Load temperature**



**Life-time vs. case**



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.

## Cautions

| <b>This product must be installed and adjusted by a qualified professional.</b> |   |   |
|---|---|---|
| 1   | Confirmation of installation conditions | <ul style="list-style-type: none"> <li>• <b>Waterproof and Protection:</b> 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.</li> <li>• <b>Heat dissipation requirements:</b> 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                             | <ul style="list-style-type: none"> <li>· Before use, check the product parameters and confirm that the output voltage and current of the LED power supply meet the requirements</li> </ul>  |
| 3   | Safe wiring                             | <ul style="list-style-type: none"> <li>· 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).</li> <li>· If the power supply (metal casing) is installed on a grounded lighting component or equipment, the power supply needs to be grounded.</li> <li>· To avoid hot swapping, power off and restart the driver before connecting the LED load.</li> </ul>  |
| 4   | Wiring confirmation                     | <ul style="list-style-type: none"> <li>· Before power on debugging, ensure that the wiring is secure and avoid poor contact to prevent unstable current or equipment damage.</li> </ul>   |
| 5   | Repair suggestions                      | <ul style="list-style-type: none"> <li>· 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.</li> </ul>  |

※ 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 exdusions 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.
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