

## EUP12A-1HMC-1 (Product No.:103100282101)

### Summary

EUP12A-1HMC-1 is a constant current output mode LED driver. The output current can be easily set via DIP switch, and the driver can be adjusted by the external 0/1-10VDC active signal, PWM signal, or adjustable resistance to achieve the smooth dimming effect.

### Product Features

- Single channel output, output current level selectable by DIP S.W.
- Support 3-in-1 dimming mode(0/1-10V active signal, adjustable resistance, PWM)
- High input voltage of 220VAC ~ 240VAC
- High efficiency up to 85%
- Built-in active PFC function
- 100% output when no dimming signal input, can be used as normal power supply
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load
- Suitable for indoor LED lighting application, such as down light, spot light, and so on



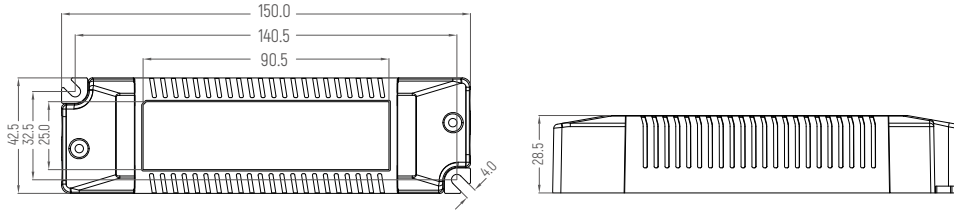
### Application



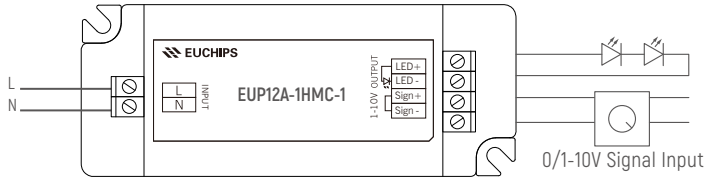
### Technical Parameters

| Model   | EUP12A-1HMC-1  |   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|---|--|---|-------|-------|-------|---|---|---|--|--|-------|-------|-------|-------|--|--|-------|-------|-------|-------|
| Input   | Efficiency   | 85%@230VAC, Full load   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Voltage  | 220VAC-240VAC   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Frequency Range(Hz)  | 50/60Hz   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Power Factor   | ≥0.95@230VAC, Full load   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | THD(full load)   | <10%@230VAC, Full load  |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | AC Current(max)  | 0.07Amax@230VAC   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Inrush Current(max)  | Cold start, 18A (width=14us measured at 50% Ipeak)@230VAC   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
| Output  | Current(mA)/Voltage (VDC)<br>Power(W)  | 200mA/9-40VDC/8W      250mA/9-40VDC/10W<br>300mA/9-40VDC/12W      350mA/9-34VDC/11.9W                                   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Ripple Current   | <3%   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Channel  | 1   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Current Tolerance  | ±5%   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Standby Power  | <1W   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | No load output voltage   | 50V Max   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
| <b>Current Selection Table</b> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>ON</th> <th>OFF</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>200mA</td> <td>250mA</td> <td>300mA</td> <td>350mA</td> </tr> <tr> <td></td> <td></td> <td>9-40V</td> <td>9-40V</td> <td>9-40V</td> <td>9-34V</td> </tr> </tbody> </table> <p>Remark: Function default setting is: 200mA (@switch are all OFF state)</p> |  |   | ON    | OFF   | 1     | 2 | 3 | 4 |  |  | 200mA | 250mA | 300mA | 350mA |  |  | 9-40V | 9-40V | 9-40V | 9-34V |
| ON  | OFF  | 1   | 2     | 3     | 4     |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   |  | 200mA   | 250mA | 300mA | 350mA |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   |  | 9-40V   | 9-40V | 9-40V | 9-34V |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
| Function  | Dimming Type   | 0/1-10V active signal, adjustable resistance, PWM   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Dimming Range  | 0.1%-100% Dimming to off  |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
| Protection  | Short Circuit  | after fault removed Close output ,the output current recovers automatically   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Over Load  | When the output voltage is exceeded, the output current decreases and, recovers automatically when the load is reduced. |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
| Safety& EMC   | Surge  | L-N:500V  |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Withstand Voltage  | I/P-O/P: 3000VAC/1min/5mA   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Safety Standards   | EN61347, GB19510  |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | EMC Emission   | EN55015, EN61000-3-2  |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
| EMC Immunity  | EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547  |   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
| Others  | Working Temp.  | -20°C -50°C   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Storage Temp., Humidity  | -40°C -85°C, 20-90%RH   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | tc   | 90°C  |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Material   | PC  |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | IP Rating  | IP20  |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Lifetime   | 50,000h@tc:80°C   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Warranty Condition   | 5 years   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
|   | Switch Cycle   | >25,000 times   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
| Packing(weight)   | Net weight: 125g±5%/PCS; 50PCS/Carton; 6.75kg±5%/Carton; Carton Size: 319*254*136mm(L*W*H) |   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |
| Dimension   | 150*43*29mm (L*W*H)  |   |       |       |       |   |   |   |  |  |       |       |       |       |  |  |       |       |       |       |

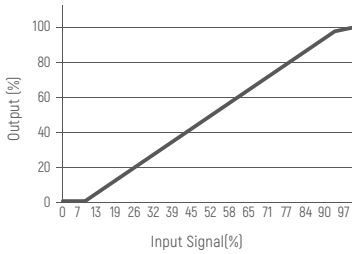
## Dimension(mm)



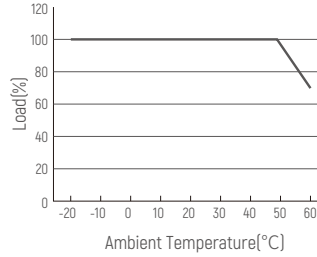
## 0/1-10V Wiring



## Dimming Curve



## Derating Curve



## Cautions

- 1.This product should be installed by qualified personnel.
- 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- 1.5mm<sup>2</sup> 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 .