

EUP12A-1HMC-1

1-10V Constant Current Dimming Driver

Summary

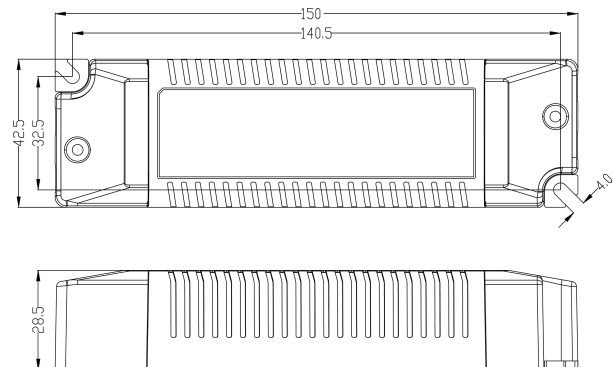
EUP12A-1HMC-1 is a constant current output mode LED driver. The output current can be easily set via DIP switch, and the driver can be adjusted by the external 1-10VDC active signal, PWM signal, or adjustable resistance to achieve the smooth dimming effect.

Product Features

- Single channel output, output current level selectable by DIP S.W.
- Support 3-in-1 dimming mode(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, over temperature
- Suitable for indoor LED lighting application, such as down light, spot light, and so on



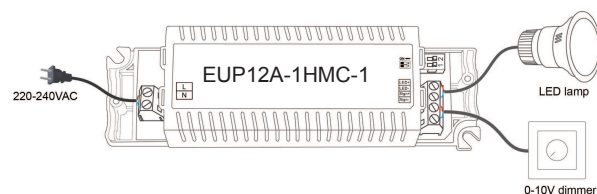
Dimension (mm)



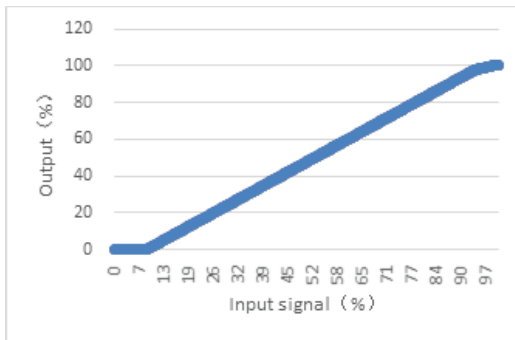
Technical Parameters

| Model | EUP12A-1HMC-1 | | | |
|------------|------------------------------------|--|---------|---------|
| Output | Current | 200mA | 250mA | 300mA |
| | Voltage | 9-40VDC | 9-40VDC | 9-34VDC |
| | Power | 8W | 10W | 12W |
| | Current Accuracy | ±5% | | |
| | No Load Output Voltage | 50VDC | | |
| | Output LF current ripple(< 120 Hz) | <3% | | |
| | Channels | 1 | | |
| Input | Voltage | 220~240VAC | | |
| | Frequency | 50/60Hz | | |
| | Power factor | ≥0.95@230VAC,full load | | |
| | Efficiency | 85%@230VAC,full load | | |
| | THD | < 10%@230VAC,full load | | |
| | No-load power consumption | < 0.5W | | |
| | Current | 0.07Amax@230VAC | | |
| | Inrush Current | Cold start,18A(t=width 14us measured at 50% Ipeak)@230VAC | | |
| Protection | Short circuit | after fault removed Close output .the output current recovers automatically | | |
| | Over load | When the output voltage is exceeded, decreases and ,recovers automatically when the load is reduced. | | |
| | Over temperature | Shut down the output, recovers automatically when temp. back to normal. | | |
| Function | Dimming | 1-10V active signal , adjustable resistance, PWM | | |
| Others | Dimension | 150*43*29 mm (L*W*H) | | |
| | G.W | 125g | | |
| | Working temp. | -20℃~50℃ | | |
| | Relative humidity | 20~90% RH | | |

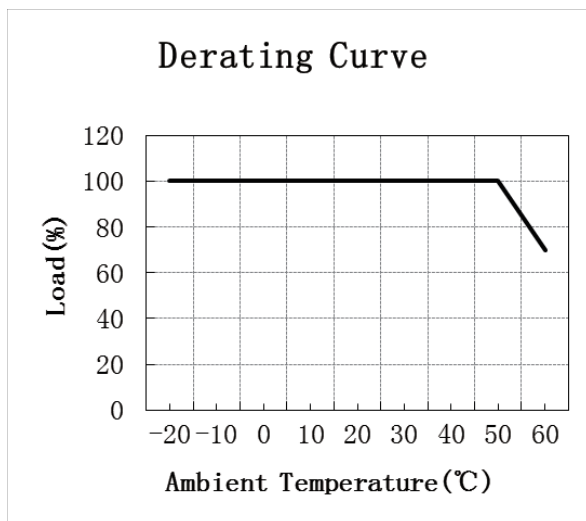
Wiring Diagram



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 0.75-2.5mm² 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.

Current Selection Table

EUP12A-1HMC-1 is a multi-current dimming driver, output current level selectable by DIP S.W., as the following:

| Current | DIP-1 | DIP-2 |
|---------|-------|-------|
| 200mA | OFF | OFF |
| 250mA | ON | OFF |
| 300mA | OFF | ON |
| 350mA | ON | ON |

Remark: Function default setting is: 200mA (@switch are all OFF state)