

EUP30A-1HMC-1

1-10V Constant Current Dimming Driver



Summary

EUP30A-1HMC-1 is a constant 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.

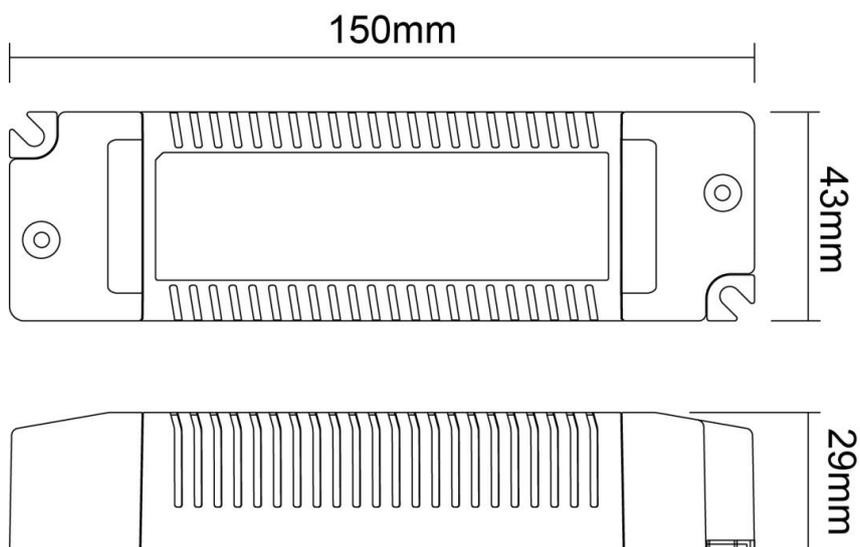
Product Features

- Single channel output, output current level selectable by DIP S.W.
- Support 3-in-1 dimming mode(1-10V active signal, adjustable resistance, PWM)
- Built-in active PFC function
- Class 2 power supply. Full protective plastic housing
- 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, spotlights, panel light, and so on

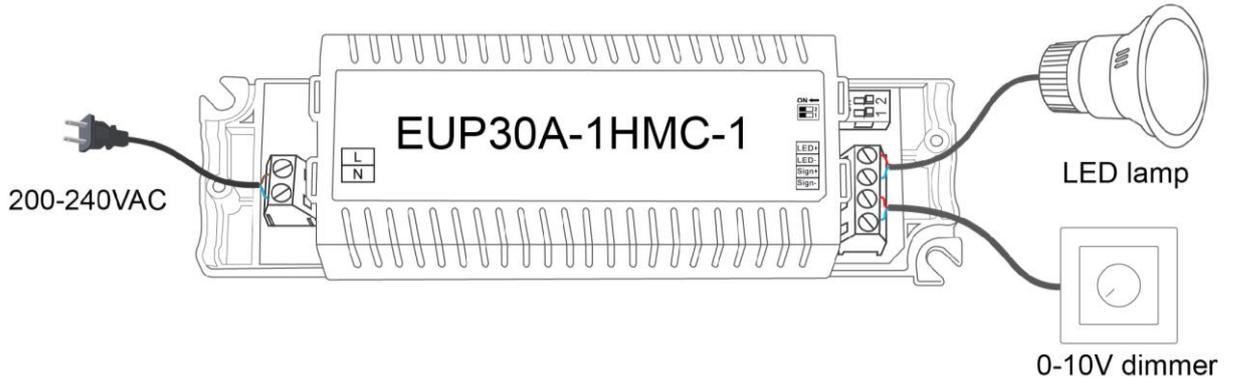
Technical Parameters

Model		EUP30A-1HMC-1			
Output	Current	600mA	700mA	800mA	900mA
	Voltage	9-45VDC	9-43VDC	9-37VDC	9-34VDC
	Power	27W	30.1W	29.6W	30.6W
	Current accuracy	±5%			
	No load output voltage	50VDC			
	Output LF current ripple(< 120 Hz)	<3%			
	Channels	1			
Input	Voltage	200– 240VAC			
	Frequency	50/60Hz			
	Current	0.20Amax@230VAC			
	Power factor	>0.95@230VAC,full load			
	THD	<15%@230VAC,full load			
	Efficiency	83%@230VAC,full load			
	Inrush current	Cold start,15A($t_{width}=22\mu s$ measured at 50% I_{peak}) @230VAC			
Protection	Short circuit	Close output, recovers automatically after fault removed			
	Over load	When the output voltage is exceeded, the output current 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	130g			
	Working temp.	-20℃ ~ 50℃			
	Relative humidity	20~90% RH			

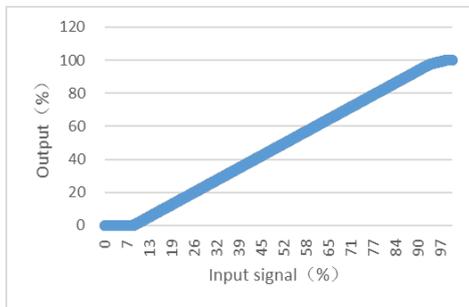
Dimension (mm)



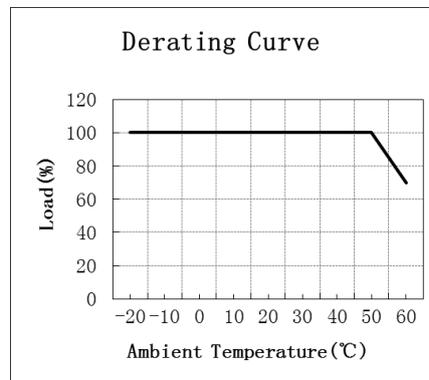
Wiring Diagram



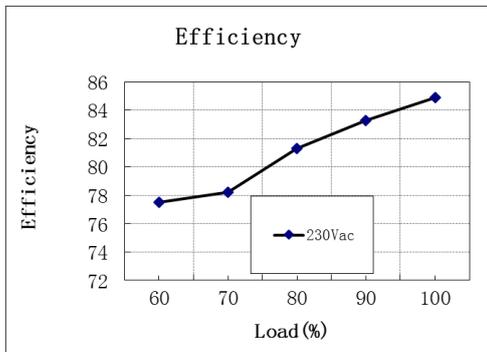
Dimming Curve



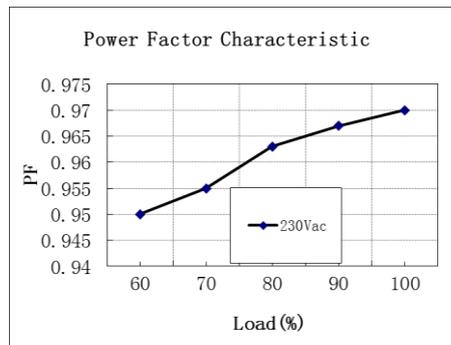
Derating Curve



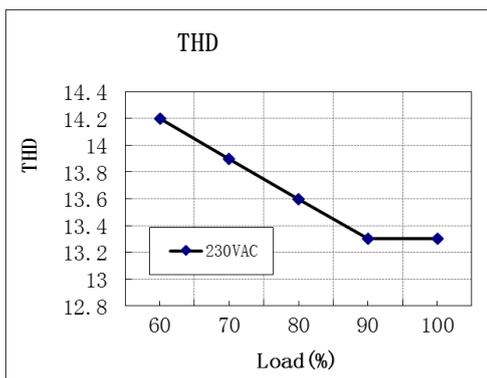
Efficiency vs load



PF vs load



THD vs load



Current Selection Table

Current	DIP-1	DIP-2
600mA	OFF	OFF
700mA	ON	OFF
800mA	OFF	ON
900mA	ON	ON

Remark: Function default setting is: 600mA (@switch are all OFF state)

Cautions

1. The product shall be installed and serviced by a qualified person.
2. This product is non-waterproof. Please avoid the sun and rain. When installed outdoors please ensure it is mounted in a water proof enclosure.
3. Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
4. Please check if the output voltage and current of any LED power supplies used comply with the requirement of the product.
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. For safety consideration, 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. If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.