

EUP50A-1HMC-1

1-10V Constant Current Dimming Driver

Summary

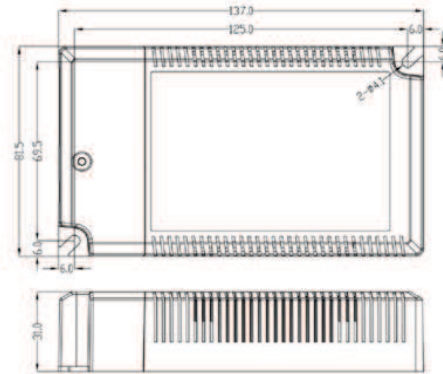
EUP50A-1HMC-1 is a constant output mode LED driver. The output current can be easily set via DIP switch, and the driver can be adjusted by the external 1-10VDC active signal, PWM signal, or adjustable resistance to achieve the smooth dimming effect.

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)
- High input voltage of 220VAC ~ 240VAC
- High efficiency up to 88%
- 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, panel light, and so on



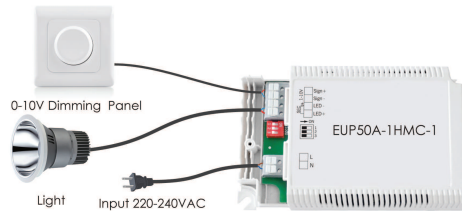
Dimension (mm)



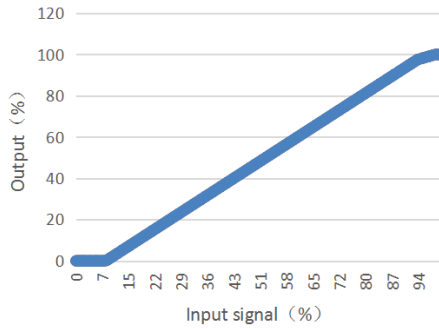
Technical Parameters

Model	EUP50A-1HMC-1				
Output	Current	1050mA	1100mA	1150mA	1200mA
	Voltage	9-45VDC	9-45VDC	9-43VDC	9-42VDC
	Power	47.25W	49.5W	49.45W	50.4W
	Current	1250mA	1300mA	1350mA	1400mA
	Voltage	9-40VDC	9-38VDC	9-37VDC	9-36VDC
	Power	50W	49.4W	49.95W	50.4W
	Current accuracy	±5%			
	Maximum output voltage	55VDC			
	Output LF current ripple(< 120 Hz)	< 3%			
Channels	1				
Input	Voltage	220-240VAC			
	Frequency	50/60Hz			
	Power factor	≥0.95@230VAC,full load			
	THD	<10%@230VAC,full load			
	No-load power consumption	<0.5W			
	Efficiency	88%@230VAC,full load			
	Current	0.28Amax@230VAC			
Protection	Inrush current	Cold start,40A(t _{settle} =12.8us measured at 50% I _{peak}) @230VAC			
	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.			
Function	Over temperature	Shut down the output, recovers automatically when temp. back to normal.			
	Dimming	1-10V active signal, adjustable resistance, PWM			
Others	Dimension	137*82*31 mm (L*W*H)			
	G.W	225g			
	Working temp.	-20℃ ~ 50℃			
	Relative humidity	20~90% RH			

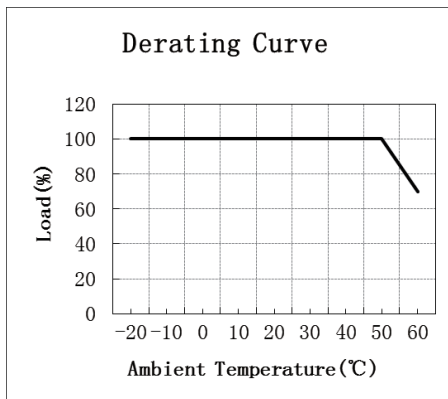
Wiring Diagram



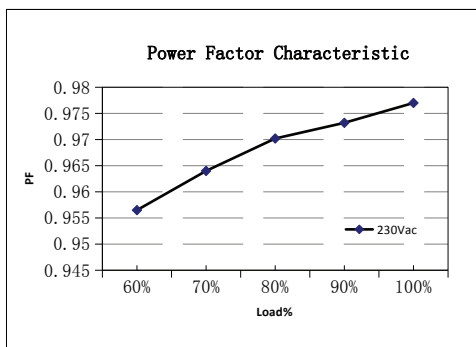
Dimming Curve



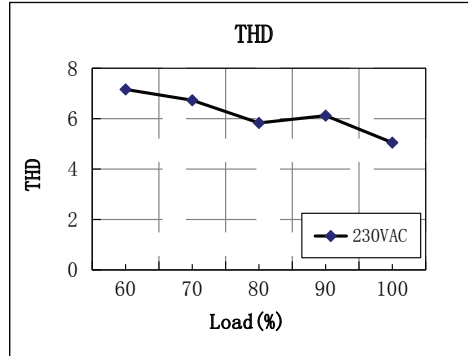
Derating Curve



PF vs load



THD vs load



Current Selection Table

EUP50A-1HMC-1 is a multi-current dimming driver, output current level selectable by DIP S.W., as the following:

Current	DIP-1	DIP-2	DIP-3
1050mA	OFF	OFF	OFF
1100mA	ON	OFF	OFF
1150mA	OFF	ON	OFF
1200mA	ON	ON	OFF
1250mA	OFF	OFF	ON
1300mA	ON	OFF	ON
1350mA	OFF	ON	ON
1400mA	ON	ON	ON

Remark: Function default setting is: 1050mA (@switch are all OFF state)

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.