

EUP20A-1HMC-1

1-10V Constant Current Dimming Driver

Summary

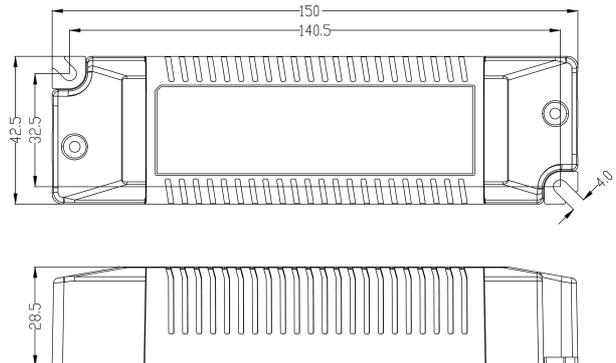
EUP20A-1HMC-1 is a constant current output mode LED driver. The output current can be easily set via DIP switch, and the driver can be adjusted by the external 1-10VDC active signal, PWM signal, or adjustable resistance to achieve the smooth dimming effect.

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



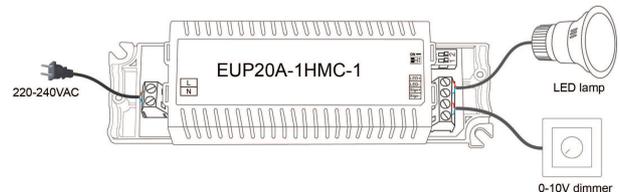
Dimension (mm)



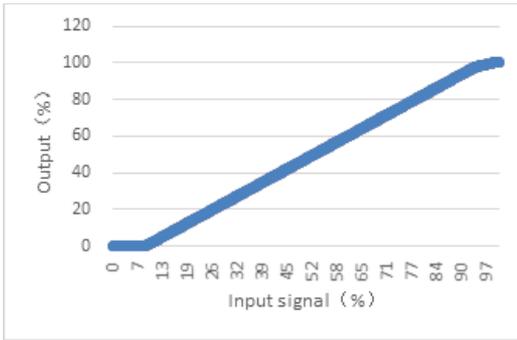
Technical Parameters

Model	EUP20A-1HMC-1				
Output	Current	350mA	500mA	550mA	700mA
	Voltage	9-40VDC	9-40VDC	9-36VDC	9-28VDC
	Power	14W	20W	19.8W	19.6W
	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	0.12 Amax@230VAC			
	Inrush Current	Cold start, 18A(t=width 12.8us 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			
	Dimension	150*43*29 mm (L*W*H)			
Others	G.W	125g			
	Working temp.	-20℃~50℃			
	Relative humidity	20~90% RH			

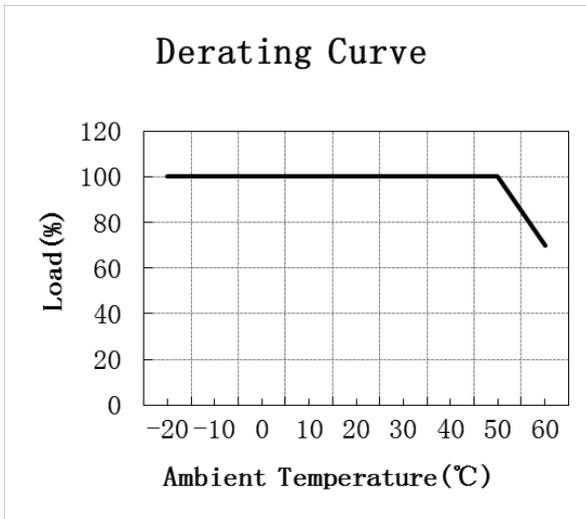
Wiring Diagram



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

EUP20A-1HMC-1 is a multi-current dimming driver, output current level selectable by DIP S.W., as the following:

Current	DIP-1	DIP-2
350mA	OFF	OFF
500mA	ON	OFF
550mA	OFF	ON
700mA	ON	ON

Remark: Function default setting is: 350mA (@switch are all OFF state)