

## EUP20A-1HMC-1 (Product No.:103100261101)

### 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 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, over temperature
- Suitable for indoor LED lighting application, such as down light, spot light, and so on



### Application



Downlight



Panel Light



Spotlight



Ceiling Light



Decorative Light



Floor Light



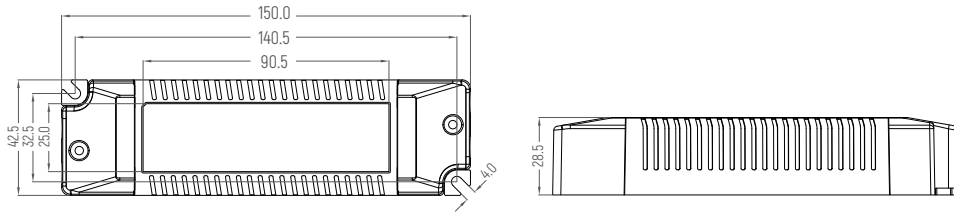
Flood Light



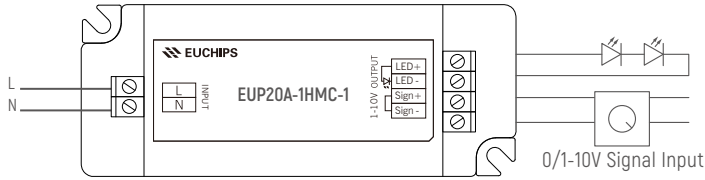
### Technical Parameters

Model	EUP20A-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)	0.12Amax@230VAC																		
	Inrush Current(max)	Cold start, 18A(twidth=12.8us measured at 50% Ipeak)@230VAC																		
Output	Current(mA)/Voltage (VDC) Power(W)	350mA/9-40VDC/14W    500mA/9-40VDC/20W 550mA/9-36VDC/19.8W    700mA/9-28VDC/19.6W																		
	Ripple Current	<3%																		
	Channel	1																		
	Current Tolerance	±5%																		
	Standby Power	<1W																		
	No load output voltage	50V Max																		
<table border="1"> <caption>Current Selection Table</caption> <tr> <td>ON</td> <td>OFF</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>350mA</td> <td>500mA</td> <td>550mA</td> <td>700mA</td> </tr> <tr> <td></td> <td></td> <td>9-40V</td> <td>9-40V</td> <td>9-36V</td> <td>9-28V</td> </tr> </table> <p>Remark: Function default setting is: 350mA (@switch are all OFF state)</p>			ON	OFF	1	2	3	4			350mA	500mA	550mA	700mA			9-40V	9-40V	9-36V	9-28V
ON	OFF	1	2	3	4															
		350mA	500mA	550mA	700mA															
		9-40V	9-40V	9-36V	9-28V															
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.																		
	Over Temperature	Shut down the output, recovers automatically when temp. back to normal.																		
Safety & EMC	Surge	L-N:500V																		
	Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA																		
	Safety Standards	EN61347, GB19510																		
	EMC Eission	EN50515, 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																		
	t <sub>c</sub>	90°C																		
	Material	PC																		
	IP Rating	IP20																		
	Lifetime	30,000h@t <sub>c</sub> :80°C																		
	Warranty Condition	3 years																		
	Switch Cycle	>15,000 times																		
	Packing(weight)	Net weight: 125g±5%/PCS; 50PCS/Cartron; 6.75kg±5%/Cartron; Cartron Size: 319*254*136mm(L*W*H)																		
	Dimension	150*43*29mm (L*W*H)																		

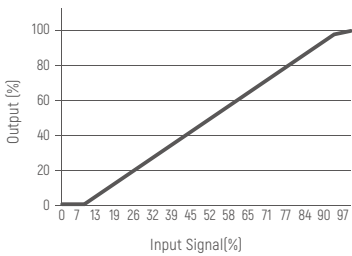
## Dimension(mm)



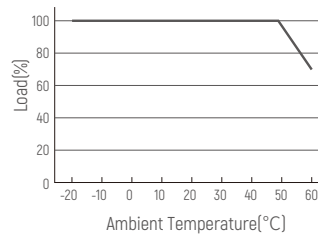
## 0/1-10V Wiring



## 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- 2.5mm<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 .