

EUP20D-1HMC-0 (Product No.:102100171101)

Summary

EUP20D-1HMC-0 is a 20W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386. EUP20D-1HMC-0 can be connected to DALI main controller or Touch DIM to achieve a smooth dimming effect.



Product Features

- Single channel output, output current level selectable by DIP S.W.
- Meet DALI Protocol IEC 62386
- Support Touch-DIM function
- High efficiency up to 86 %
- Built-in active PFC function
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load,
- Suitable for indoor LED lighting application, such as down light, panel light, and so on



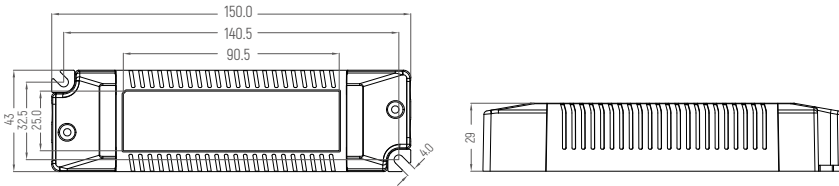
Application



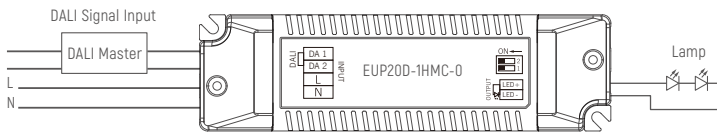
Technical Parameters

Model	EUP20D-1HMC-0																		
Input	Efficiency	>86%@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																	
	Standby power	<0.5W																	
	Inrush Current(max)	Cold start,18A(twidth=14us 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%																	
	No load output voltage	50V Max																	
	Turn on delay Time	<1.5s, at230Vac																	
	<table border="1"> <caption>Current Selection Table</caption> <tr> <td>ON</td> <td>OFF</td> <td>1 2</td> <td>3 4</td> <td>5 6</td> <td>7 8</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	5 6	7 8			350mA	500mA	550mA	700mA			9-40V	9-40V	9-36V
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		350mA	500mA	550mA	700mA														
		9-40V	9-40V	9-36V	9-28V														
Function	Dimming Type	DALI /Touch DIM																	
	Dimming Range	1%-100% Dimming to off																	
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.																	
Others	Working Temp.	-20°C-50°C																	
	Storage Temp., Humidity	-40°C-85°C, 20-90%RH																	
	tc	90°C																	
	Material	PC																	
	IP Rating	IP20																	
	Lifetime	50,000h@tc:80°C																	
	Warranty Condition	5 Years																	
	Switch Cycle	>100,000 tims																	
	Packing(weight)	Net weight: 125g±5%/PCS; 50PCS/Carton; 6.65kg±5%/Carton; Carton Size: 319*254*136mm(L*W*H)																	
Dimension	150*43*29mm (L*W*H)																		

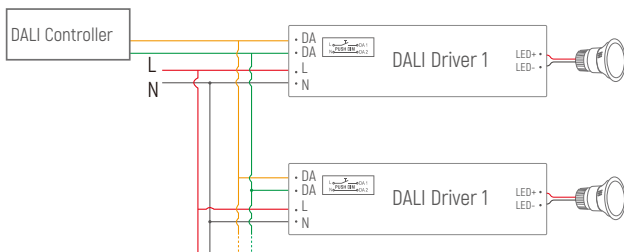
Dimension(mm)



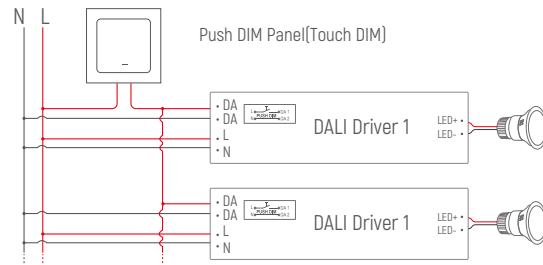
DALI Wiring



DALI Diagram



Push DIM(Touch DIM) Diagram

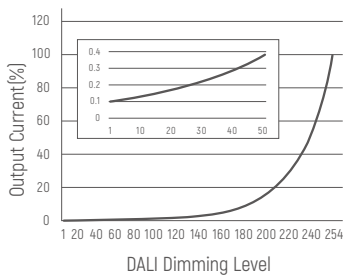


Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

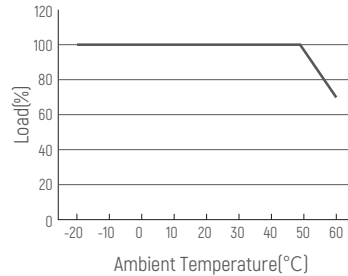
Push DIM Function

1. Press the Push DIM (Touch DIM) switch for 8s or more, the driver can be controlled via Push DIM switch.
2. Short press the Push DIM (Touch DIM) switch (<0.5s) to control the lamp on or off.
3. Long press the Push DIM (Touch DIM) switch (>0.5s) to dim the brightness of light. The dimming direction will change every time after pressing switch.
4. Double-click the Push DIM (Touch DIM) switch (<0.3s), then all lamps connected on the device will be set maximum brightness.
5. The brightness adjustment range is 1%-100%, and the light can be turned off through short pressing when doing the adjustment with long pressing Push DIM (Touch DIM) switch.
6. With the Power off memory function, the power-down state will be recovered when power on again.

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- 1.5mm² 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.

※ 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.