

EUP12D-1HMC-0 (Product No.:102100261101)

Summary

EUP12D-1HMC-0 is a 12W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386. EUP12D-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 85 %
- Built-in active PFC function
- 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



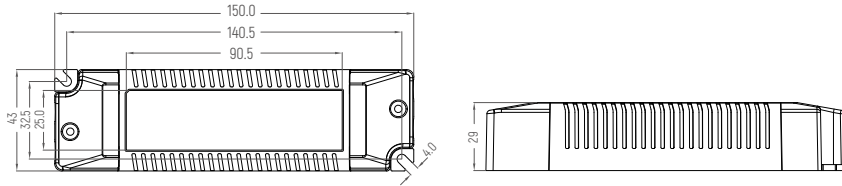
Application



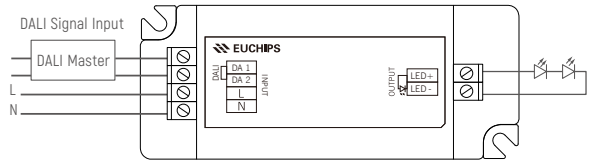
Technical Parameters

Model	EUP12D-1HMC-0																												
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)	0.07Amax@230VAC																											
	Standby power	<0.5W																											
	Inrush Current(max)	Cold start,18A(twidth=14us measured at 50% Ipeak)@230VA C																											
Output	Current(mA)/Voltage (VDC) Power(W)	200mA/9-40VDC/8W 300mA/9-40VDC/12W	250mA/9-40VDC/10W 350mA/9-34VDC/11.9W	<div>Current Selection Table</div> <table><tr><td></td><td></td><td>1</td><td>2</td><td></td><td></td><td></td><td></td></tr><tr><td>ON</td><td>OFF</td><td>200mA</td><td>250mA</td><td>300mA</td><td>350mA</td><td></td><td></td></tr><tr><td></td><td></td><td>9-40V</td><td>9-40V</td><td>9-40V</td><td>9-34V</td><td></td><td></td></tr></table> <p>Remark: Function default setting is: 200mA (@switch are all OFF state)</p>				1	2					ON	OFF	200mA	250mA	300mA	350mA					9-40V	9-40V	9-40V	9-34V		
			1			2																							
	ON	OFF	200mA			250mA	300mA	350mA																					
			9-40V			9-40V	9-40V	9-34V																					
	Ripple Current	<3%																											
	Channel	1																											
Current Tolerance	±5%																												
No load output voltage	50V Max																												
Function	Dimming Type	DALI /Touch DIM																											
	Dimming Range	0.1%-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.																											
	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																											
	DALI Standard	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC 62386-207: 2009, DALI 1.0																											
	Safety Standards	EN61347, GB19510																											
	EMC Eission	EN55015, 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																											
	tc	90°C																											
	Material	PC																											
	IP Rating	IP20																											
	Lifetime	50,000h@tc:80°C																											
	Warranty Condition	5 Years																											
	Switch Cycle	>25,000 times																											
	Packing(weight)	Net weight: 125g±5%/PCS; 50PCS/Cartron; 6.65kg±5%/Carton; Carton Size: 319*254*136mm(L*W*H)																											
	Dimension	150*43*29mm (L*W*H)																											

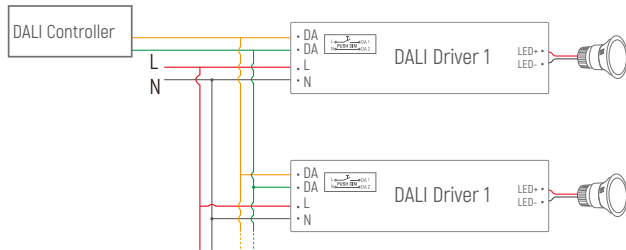
Dimension(mm)



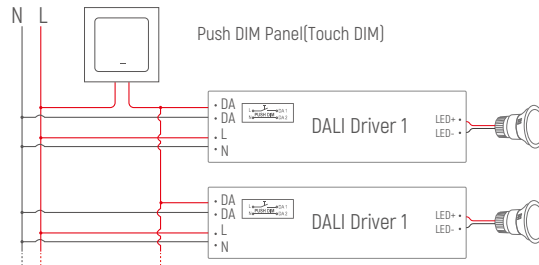
DALI Wiring



DALI Diagram



Push DIM(Touch DIM) Diagram

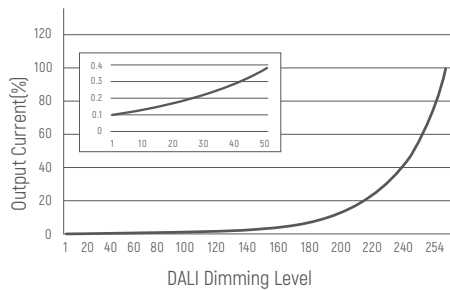


Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

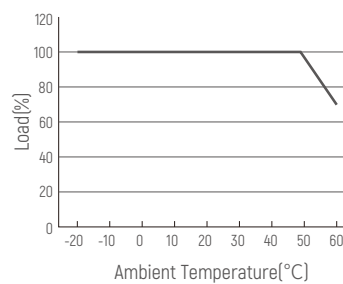
Push DIM Function

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.