

EUP10D-1HMC-0-120

Summary

EUP10D-1HMC-0-120 is a 10W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386. EUP10D-1HMC-0-120 can be connected to DALI main controller or Touch DIM(Push DIM) to achieve a smooth dimming effect.



Product Feature

- Single channel output, output current level selectable by DIP S.W.
- Meet DALI Protocol IEC 62386-207
- Support Touch DIM (Push DIM)function
- High efficiency up to 82%
- Built-in active PFC function
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load, no load
- Suitable for indoor LED lighting application, such as down light, spot light, and so on



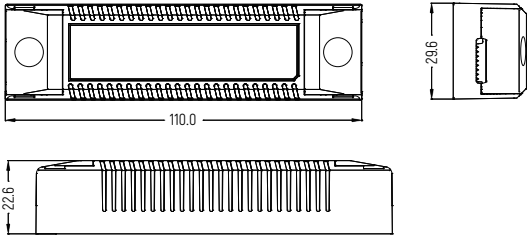
Application



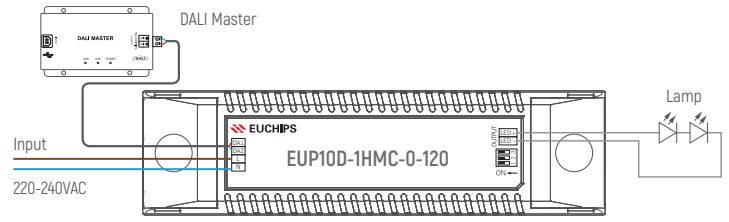
Technical Parameters

Model	EUP10D-1HMC-0-120																																								
Input	Efficiency	82%@230VAC, Full load																																							
	Voltage	220VAC-240VAC																																							
	Frequency	50/60Hz																																							
	Power Factor	0.95@230VAC, Full load																																							
	THD	<10%@230VAC, Full load																																							
	Current	0.06Amax@230VAC, Full load																																							
	Inrush Current	cold start,10A(twidth=10us measured at 50% Ipeak@230VACC																																							
Output	Current/voltage/power	120mA/9-45VDC/5.4W 220mA/9-45VDC/9.9W	150mA/9-45VDC/6.75W 250mA/9-40VDC/10W	170mA/9-45VDC/9.9W 270mA/9-37VDC/9.99W	200mA/9-45VDC/9W 300mA/9-33VDC/9.9W																																				
	Ripple Current	<3%																																							
	Channel	1																																							
	Current Tolerance	±7%																																							
	Standby Power	<0.5W																																							
	No Load Output Voltage	50VDC																																							
	Turn On Delay Time	<1s, at 230Vac																																							
		Current Selection Table <table border="1"> <tr> <td>ON</td> <td>OFF</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td></td> <td></td> <td>120mA</td> <td>150mA</td> <td>170mA</td> <td>200mA</td> <td>220mA</td> <td>250mA</td> <td>270mA</td> <td>300mA</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>9-45V</td> <td>9-45V</td> <td>9-45V</td> <td>9-45V</td> <td>9-45V</td> <td>9-40V</td> <td>9-37V</td> <td>9-33V</td> <td></td> <td></td> </tr> </table> <p>Remark: Function default setting is: 120mA (@switch are all OFF state)</p>				ON	OFF	1	2	3	4	5	6	7	8	9	10			120mA	150mA	170mA	200mA	220mA	250mA	270mA	300mA					9-45V	9-45V	9-45V	9-45V	9-45V	9-40V	9-37V	9-33V		
ON	OFF	1	2	3	4	5	6	7	8	9	10																														
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		9-45V	9-45V	9-45V	9-45V	9-45V	9-40V	9-37V	9-33V																																
Function	Dimming Mode	DALI / Touch DIM(Push DIM)																																							
	Dimming Range	1%-100%																																							
Protection	No Load	The LED Driver will not be damaged.																																							
	Short Circuit	No Output, recovers automatically after fault condition is removed																																							
	Over Load	Hiccup mode, recovers automatically after fault condition is removed																																							
Safety	Surge	L-N:500V																																							
	Withstand Voltage	I/P-O/P: 1500VAC																																							
	DALI Standrad	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC 62386-207: 2009, DALI 2.0																																							
Others	Working Temp.	-20°C~50°C																																							
	Storage Temp.; Humidity	-40°C~85°C, 20-90%RH																																							
	tc	75°C																																							
	Material	PC																																							
	IP Rating	IP20																																							
	Lifetime	50,000h@tc:75°C																																							
	Warranty Condition	5 years																																							
	Switch Cycle	>100,000 times																																							
	Packing Size	515*235*140mm[L*W*H], 9.5Kg/Carton/100PCS																																							
	Dimension	110*30*22.5mm(L*W*H)																																							
G.W	60g																																								

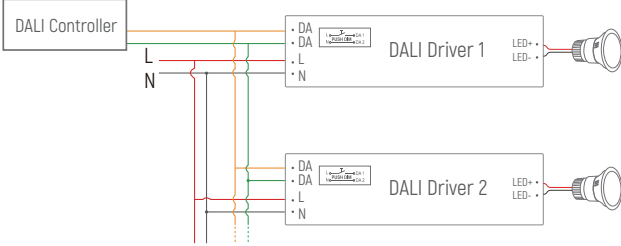
Dimension(mm)



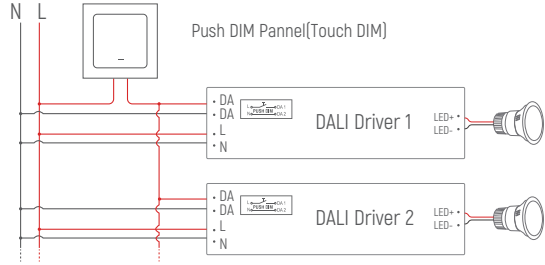
Wiring Diagram



DALI Wiring Diagram



Push DIM(Touch DIM) Diagram

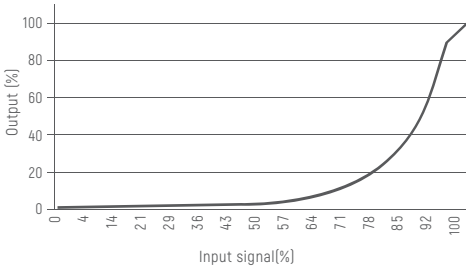


Remarks: use only open push switch (without indicator light). When using synchronous connection, the line length between each device and equipment shall not exceed 20 meters.

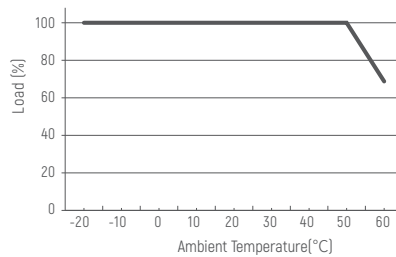
Push DIM Function

1. Press the Touch DIM switch for 8s or more, the driver can be controlled via Touch DIM switch.
2. Short press the Touch DIM switch (<0.5s) to control the lamp on or off.
3. Long press the 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 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 Touch DIM switch.
6. With the Power off memory function, the power-down state will be recovered when power on again.

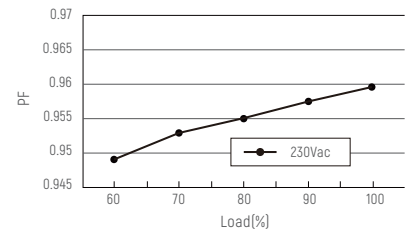
Dimming Curve



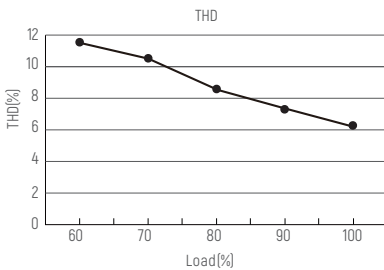
Derating Curve



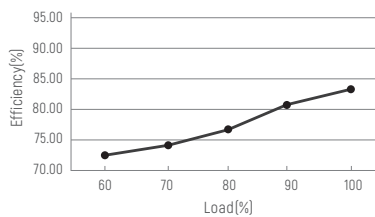
PF VS Load



THD VS load



Eff. VS Load



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.