

EUP10D-1HMC-0-350

Summary

EUP10D-1HMC-0-350 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-0-350 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 80%
- 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



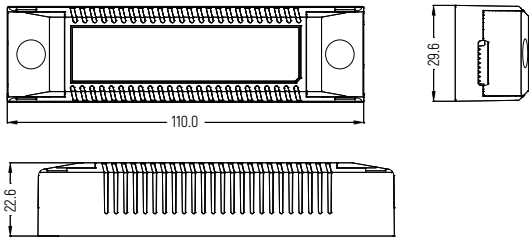
Technical Parameters

Model	EUP10D-1HMC-0-350	
Input	Efficiency	>80%@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	350mA/2-24VDC/8.4W 450mA/2-22VDC/9.9W 550mA/2-18VDC/9.9W 650mA/2-15VDC/9.75W 400mA/2-24VDC/9.6W 500mA/2-20VDC/10W 600mA/2-16VDC/9.6W 700mA/2-14VDC/9.8W
	Ripple Current	<3%
	Channel	1
	Current Tolerance	±7%
	Standby Power	<0.5W
	No Load Output Voltage	30V Max
	Turn On Delay Time	<1s, at 230Vac
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	90g	

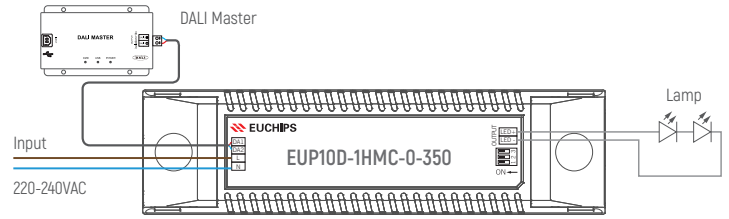
ON	OFF	1	2	3	4	5	6	7	8	9	10
		350mA	400mA	450mA	500mA						
		2-24V	2-24V	2-22V	2-20V						
		550mA	600mA	650mA	700mA						
		2-18V	2-16V	2-15V	2-14V						

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

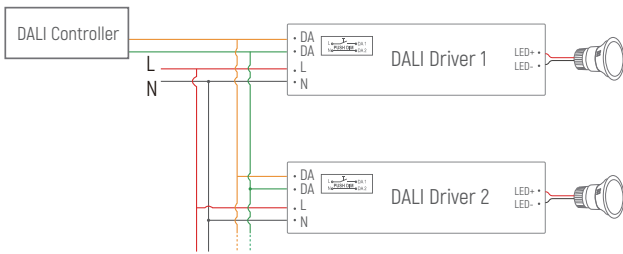
Dimension(mm)



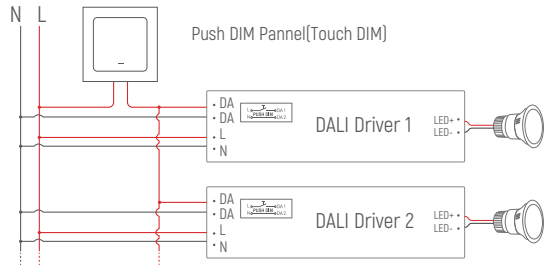
Wiring Diagram



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

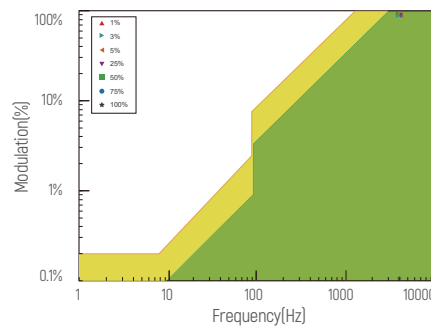
1. Press the Touch DIM switch for 8s or more, the driver can be controlled via Touch DIM switch.
2. Short press the Touch DIM switch (<0.5s) to control the lamp on or off.
3. Long press the Touch DIM switch (>0.5s) to dim the brightness of light. The dimming direction will change every time after pressing 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.

Typical flicker performance

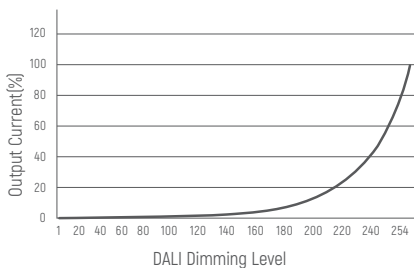
Typical flicker percent as a function of frequency, measured across the dimming range. The results are overlaid with the low-risk (yellow) and no observable effect (green) levels as defined in IEEE P1789.

Risk levels verdict :

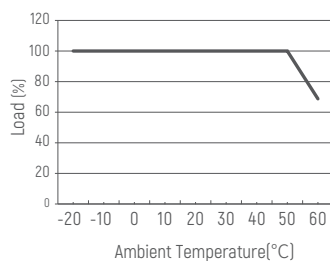
- (1) Below 90 Hz, Modulation (%) is less than 0.025×frequency.
- (2) Between 90 Hz and 1250 Hz, Modulation (%) is below 0.08×frequency.
- (3) Above 1250 Hz, there is no restriction on Modulation (%).



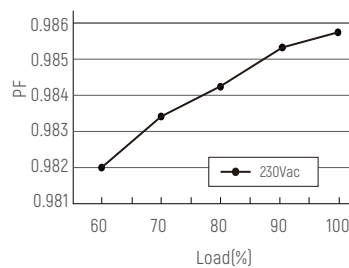
Dimming Curve



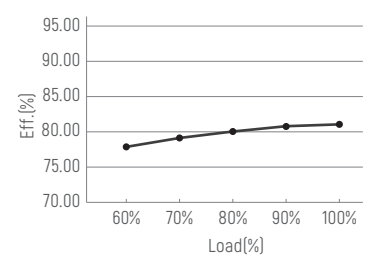
Derating Curve



PF vs Load



Eff. vs Load



※ 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.