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			
	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			

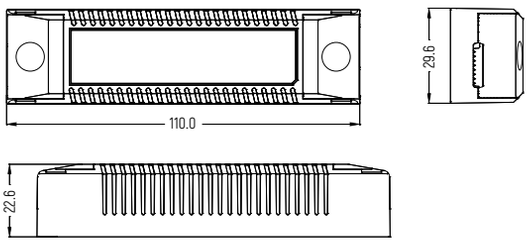
Current Selection Table

		1 2 3			
ON	OFF	350mA	400mA	450mA	500mA
		2-24V	2-24V	2-22V	2-20V
ON	OFF	550mA	600mA	650mA	700mA
		2-18V	2-16V	2-15V	2-14V

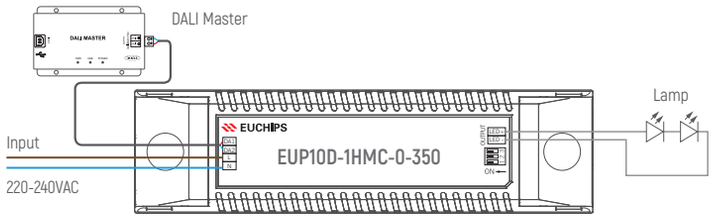
Remark: Function default setting is: 350mA (@switch are all OFF state)

Touch DIM(Push DIM)

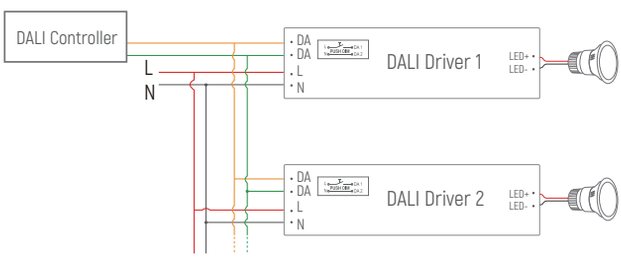
Dimension(mm)



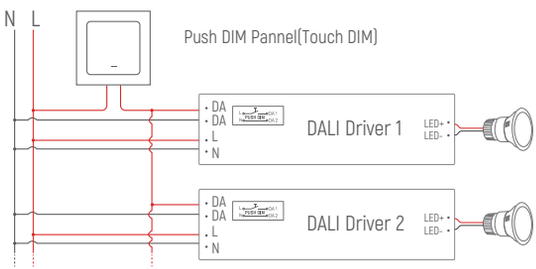
Wiring Diagram



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

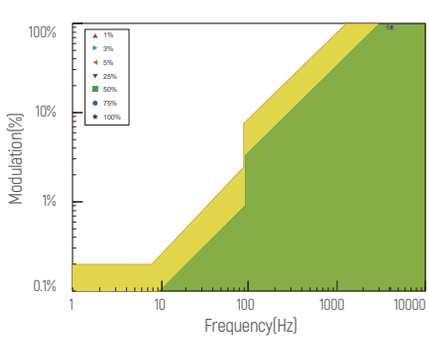
Typical flicker percent as a function of frequency,measured across the dimming range. The results are overlaid with the low-risk (yellow) and no observable effect (green) levels as defined in IEEE P1789.

Risk levels verdict：

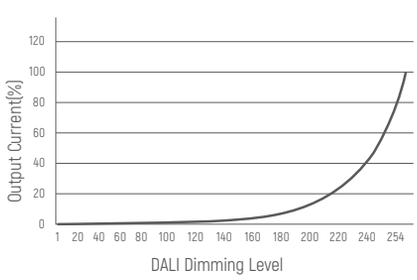
(1) Below 90 Hz, Modulation (%) is less than 0.025×frequency.

(2) Between 90 Hz and 1250 Hz, Modulation (%) is below 0.08×frequency.

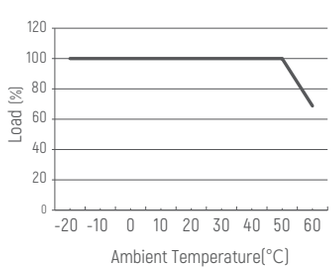
(3) Above 1250 Hz, there is no restriction on Modulation (%).



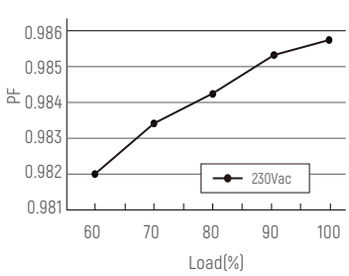
Dimming Curve



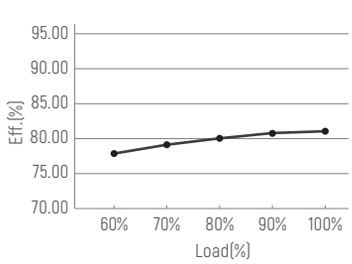
Derating Curve



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 .

EUP10D-1HMC-0-350

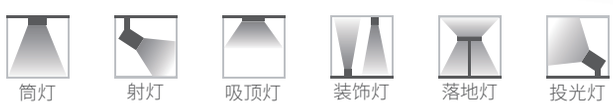
概述

EUP10D-1HMC-0-350是一款可以提350/400/450/500/550/600/650/700mA 8档电流的LED驱动器。输出电流可以过DIP拨码开关简易设置, 符合DALI标准协议IEC62386. 用DALI主控/Touch DIM(Push DIM)开关调光，曲线平滑、无闪烁。

产品特点

· 单通道输出，输出电流可通过DIP拨码开关选择
· 遵循DALI协议标准 IEC62386-207
· 支持Touch DIM(Push DIM)功能
· 效率高达80%
· 内建主动式PFC功能
· 调光效果平滑，无闪烁
· 保护：短路保护，过载保护，空载保护
· 适用于LED室内灯具,比如筒灯，射灯等

应用



技术参数

型号	EUP10D-1HMC-0-350				
输入	效率	>80%@230VAC, 满载			
	电压	220VAC-240VAC			
	频率	50/60Hz			
	功率因素	0.95@230VAC, 满载			
	THD	<10%@230VAC, 满载			
	电流	0.06Amax@230VAC, 满载			
	浪涌电流	冷启动,10A(在 50%Ipeak下测twidth=10us)@230VACC			
输出	电流/电压/功率	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
	波纹电流	<3%	电流选择表		
	通道	1			
	电流公差	±7%			
	待机功耗	<0.5W			
	空载输出电压	30V Max			
	启动延时	<1s, at230Vac			
功能	调光方式	DALI	Touch DIM(Push DIM)		
	调光范围	1%-100%			
保护	空载	驱动不会损坏			
	短路	无输出，移除故障后自恢复			
	过载	打嗝，移除故障后自恢复			
安全	浪涌	L-N:500V			
	耐压标准	I/P-O/P: 1500VAC			
	DALI 标准	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC 62386-207: 2009, DALI 2.0			
其它	工作温度	-20°C~50°C			
	储存温度、湿度	-40°C~85°C, 20-90%RH			
	tc	75°C			
	材质	PC			
	防水等级	IP20			
	寿命	50,000小时@tc:75°C			
	质保	5年			
	开关周期	>100,000次			
	包装尺寸	515*235*140mm(长*宽*高), 9.5Kg/箱/100PCS			
	尺寸	110*30*22.5mm（长*宽*高）			
	毛重	90克			

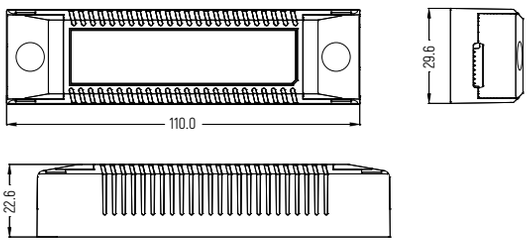
电流选择表

ON	OFF	1	2	3							
		■	■	■							
		350mA			400mA			450mA			500mA
		2-24V			2-24V			2-22V			2-20V

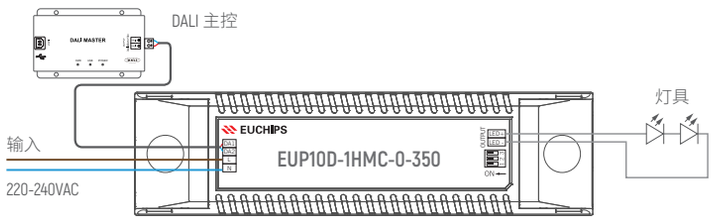
ON	OFF										
		■	■	■							
		550mA			600mA			650mA			700mA
		2-18V			2-16V			2-15V			2-14V

备注：出厂默认设置电流为350mA(1,2,3在OFF状态)

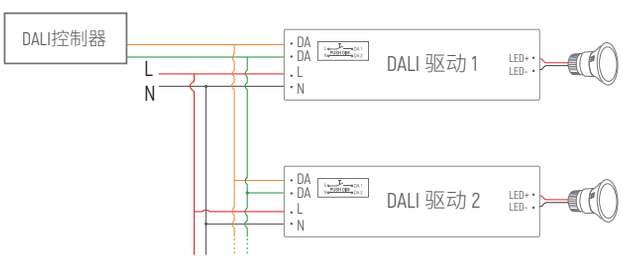
产品尺寸



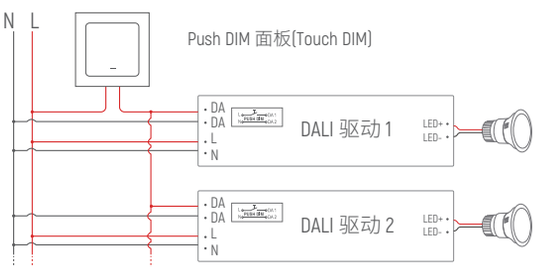
应用接线图



DALI应用接线图



Push DIM(Touch DIM) 接线图



备注: 只能使用开路的按压式开关(不带指示灯)。采用同步连线时每个设备和设备之间的线长不超过20米。

Push DIM 功能

1.长按8s进入Touch DIM模式。

2.短按Touch DIM 开关 (<0.5秒) 进行灯的亮暗控制。

3.长按Touch DIM 开关 (>0.5秒) 进行灯具的亮度调节，光是调亮还是调暗，随着每次按压的开关变化而变换。

4.双击Touch DIM 开关 (<0.3秒) ，连接的所有灯具将达到最亮状态。

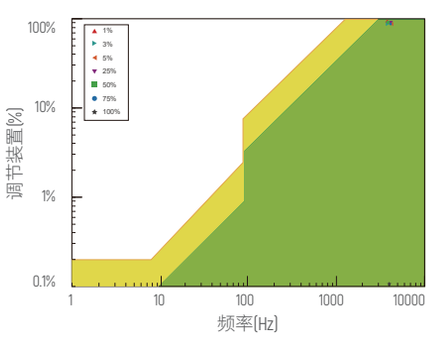
5.亮度调节范围为1%-100%。

6.具有断电记忆功能，重新上电将恢复到上一次断电的状态。

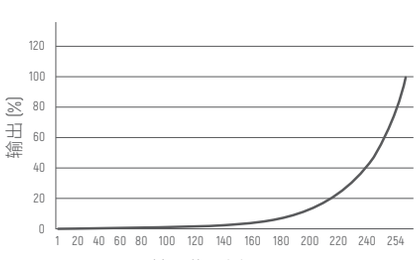
典型的频闪性能

参考IEEE1789标准定义的频闪百分比和驱动电流频率的函数关系，黄色区域为低风险区域，绿色为无明显影响区域 。

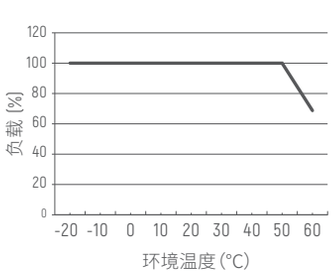
风险等级判定参考：
(1)输出电流频率在90赫兹以下: <0.025×频率。
(2)90赫兹和1250赫兹之间: <0.08×频率。
(3)高于1250赫兹时, 无限制。



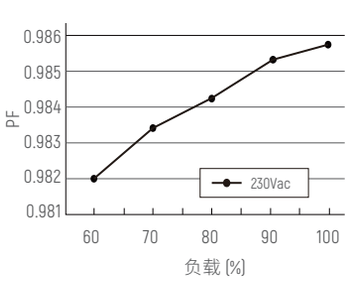
Dimming Curve



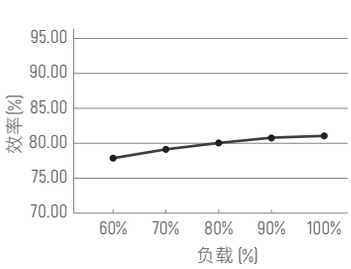
Derating Curve



PF vs Load



Eff. vs Load



※ 本说明书内容如有更新，恕不另行通知。若您使用的产品功能与说明书不一致时，请以产品为准。如有疑问请与我们联系。