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 a chieve 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,
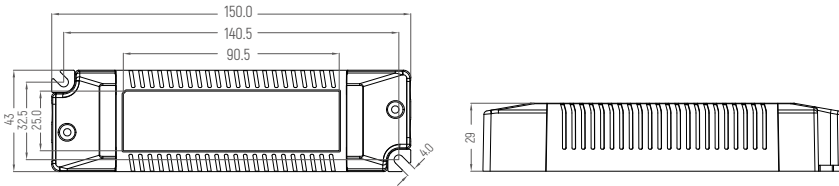·Suitable for indoor LED lighting application, such as down light, panel light, and so on
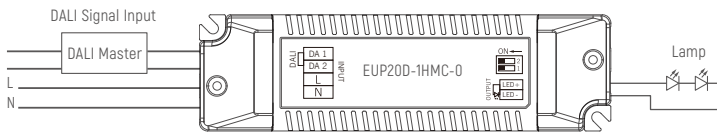
Application

| Downlight | Panel Light | Spotlight | Ceiling Light | Decorative Light | Floor Light | Flood Light |

Technical Paramaters

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		**Current Selection Table**
	Ripple Current	<3%		
	Channel	1		
	Current Tolerance	±5%		
	No load output voltage	50V Max		
	Turn on delay Time	<1.5s, at230Vac		
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）		

Current Selection Table

ON / OFF	1 2 350mA 9-40V	500mA 9-40V	550mA 9-36V	700mA 9-28V

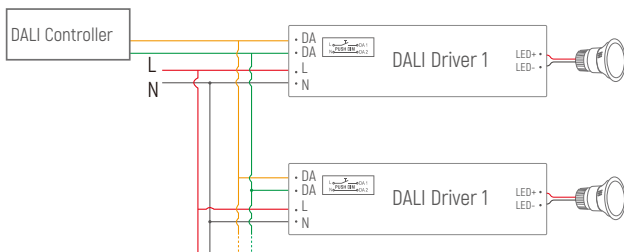Remark: Function default setting is: 350mA (@switch are all OFF state)
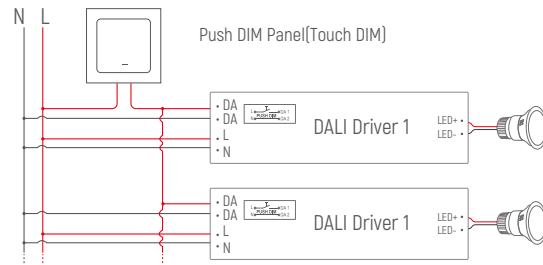
Dimension(mm)

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
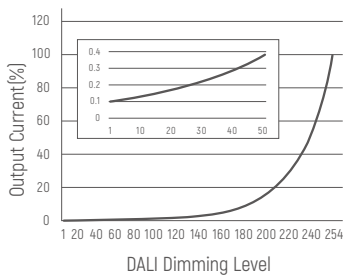
Derating Curve
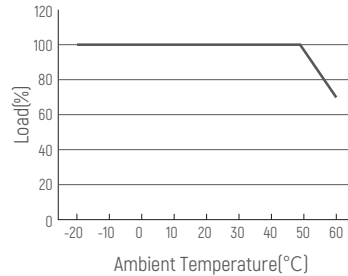
Cautions

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 .

EUCHIPS

EUP20D-1HMC-0 [产品代码:102100171101]

概述

EUP20D-1HMC-0 是一款可以提供350/500/550/700mA 4档电流的LED驱动器。
输出电流可以通过DIP拨码开关简易设置，用DALI主控/Touch DIM开关
调光，曲线平滑、无闪烁。

产品特点

·单通道恒流输出，多级电流可选
·遵循DALI协议标准 IEC62386
·支持Touch-DIM功能
·高电压输入：220VAC ~ 240VAC
·效率高达 86%
·内建主动式PFC功能
·短路保护，过载保护
·适用于LED室内灯具,比如筒灯，面板灯等

应用

| 筒灯 | 面板灯 | 射灯 | 吸顶灯 | 装饰灯 | 落地灯 | 投光灯 |

技术参数

| 型号		EUP20D-1HMC-0	
输入	效率	>86%@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	0.12Amax@230VAC	
	待机功耗	<0.5W	
	浪涌电流	冷启动,18A(在 50%Ipeak下测twidth=14us)@230VAC	
输出	电流/电压/功率	350mA/9-40VDC/14W　　500mA/9-40VDC/20W 550mA/9-36VDC/19.8W　　700mA/9-28VDC/19.6W	电流选择表
	波纹电流	<3%	
	通道	1	ON　OFF
	电流精度	±5%	350mA 500mA 550mA 700mA 9-40V 9-40V 9-36V 9-28V
	空载输出电压	50V Max	备注：出厂默认设置电流为350mA(1,2在OFF状态)
	启动延时	<1.5s, at230Vac	
功能	调光方式	DALI/Touch DIM	
	调光范围	1%-100% 变暗直至关闭	
保护	短路	关闭输出，排除故障后自恢复	
	过载	打嗝，移除故障后自恢复	
其它	工作温度	-20℃~50℃	
	储存温度、湿度	-40℃~85℃, 20-90%RH	
	tc	90℃	
	材质	PC	
	防水等级	IP20	
	寿命	50,000小时@tc:80℃	
	质保	5年	
	开关周期	>100,000次	
	包装尺寸(重量)	净重: 125g±5%/PCS; 50PCS/Carton; 6.65kg±5%/箱; 外箱尺寸: 319*254*136cm[长*宽*高]	
	尺寸	150*43*29mm （长*宽*高）	

尺寸(mm)
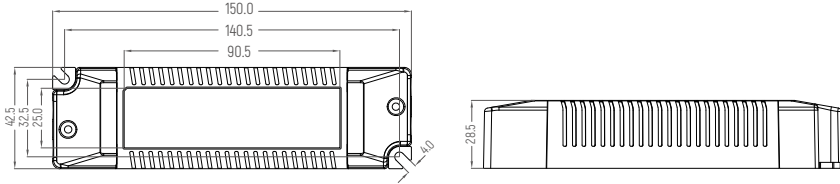

接线图
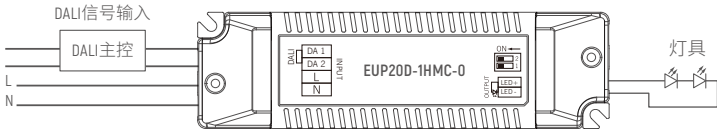
DALI应用图
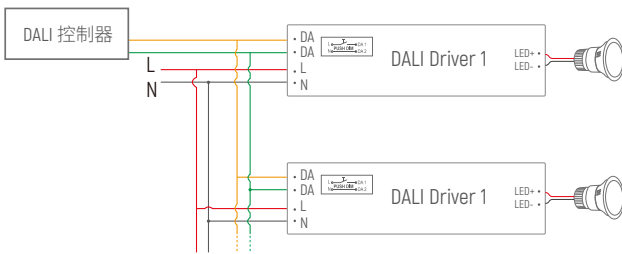
Push DIM (Touch DIM)应用图
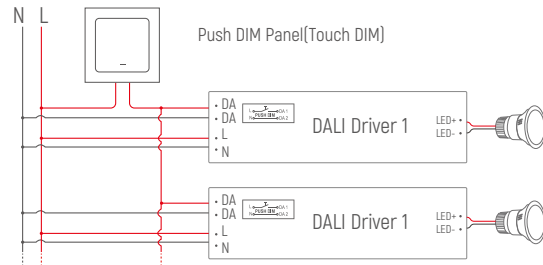
备注: 只能使用开路的按压式开关(不带指示灯). 采用同步连线时每个设备和设备之间的线长不超过20米.
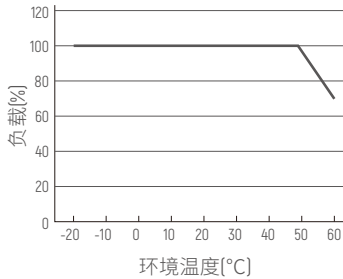
Push DIM 功能

1.长按Push DIM(Touch DIM)开关8s，进入Push DIM (Touch DIM)模式。

2.短按Push DIM (Touch DIM)开关 [<0.5秒] 进行灯的亮暗控制。

3.长按Push DIM (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Push DIM (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。

调光曲线

DALI 调光等级

降额曲线

环境温度(°C)
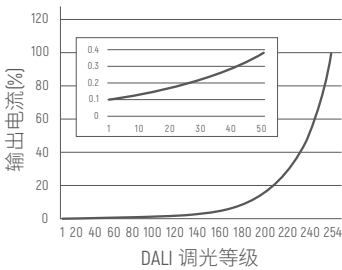
注意事项:

1、本产品请由具有专业资格的人员进行调试安装。

2、本产品不能防水，需避免日晒雨淋，如安装在户外，请用防水箱。

3、良好的散热条件会延长产品的使用寿命，请把产品安装在通风良好的环境。

4、请检查使用的LED电源输出电压电流，是否符合产品要求。

5、出于安全考虑，推荐输入和输出（信号端除外）用0.75-1.5mm² PVC或橡胶线缆，并确保接线牢固，以免电线过热或接触不良触发事故。扁平电源线不适用。

6、通电调试前，应确保所有接线正确，以避免因接线错误而导致灯具损坏。

7、如果发生故障，请勿私自维修；如果有疑问，请联系供应商。

※ 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。