

EUP20D-1HMC-0

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 achieve a smooth dimming effect.

Product Features

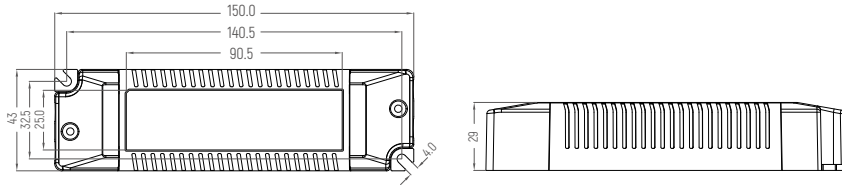
- Single channel output, output current level selectable by DIP S.W.
- Meet DALI Protocol IEC 62386-207 Ed2.0
- Support Touch-DIM function
- High efficiency up to 85 %
- Built-in active PFC function
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load, over temperature
- Suitable for indoor LED lighting application, such as down light, panel light, and so on



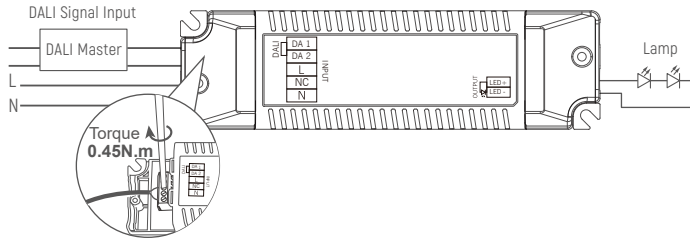
Technical Parameters

Model	EUP20D-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)	0.12Amax@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																							
	Ripple Current	<3%																							
	Channel	1																							
	Current Tolerance	±5%																							
	No load output voltage	50V Max																							
	<table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="4">Current Selection Table</th> </tr> <tr> <th>ON</th> <th>OFF</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>350mA</td> <td>500mA</td> <td>550mA</td> <td>700mA</td> </tr> <tr> <td></td> <td></td> <td>9-40V</td> <td>9-40V</td> <td>9-36V</td> <td>9-28V</td> </tr> </tbody> </table> <p>Remark: Function default setting is: 350mA (@switch are all OFF state)</p>				Current Selection Table				ON	OFF	1	2	3	4			350mA	500mA	550mA	700mA			9-40V	9-40V	9-36V
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		350mA	500mA	550mA	700mA																				
		9-40V	9-40V	9-36V	9-28V																				
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 Voltage	Hiccup, recovers after fault condition is 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:1kV																							
	Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA																							
	DALI Standard	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC62386-207 Ed2.0																							
	Safety Standards	IEC/EN61347-1,IEC/EN61347-2-13,GB19510.1,GB19510.14,																							
	EMC Emission	EN50515,EN61000-3-2 Class C,IEC61000-3-3,GB/T17743																							
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547,GB17625.1																							
Others	Working Temp.	-20°C -50°C																							
	Storage Temp., Humidity	-40°C-85°C, 20-90%RH																							
	tc	90°C																							
	Material	ABS																							
	IP Rating	IP20																							
	Lifetime	50,000h@tc:70°C																							
	Warranty Condition	5 Years																							
	Switch Cycle	>100,000 times																							
	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)																							

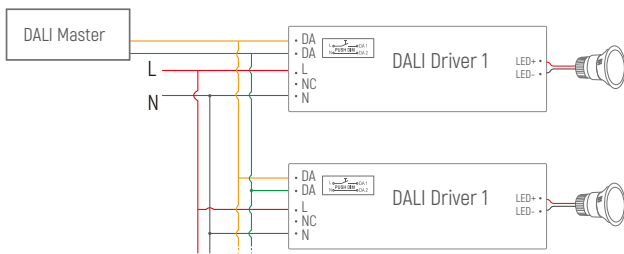
Dimension(mm)



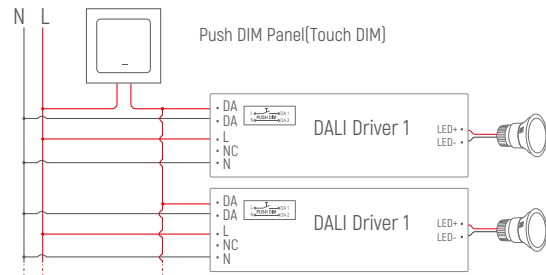
DALI Wiring



DALI Diagram



Push DIM(Touch DIM) Diagram

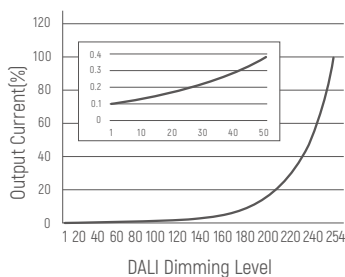


Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

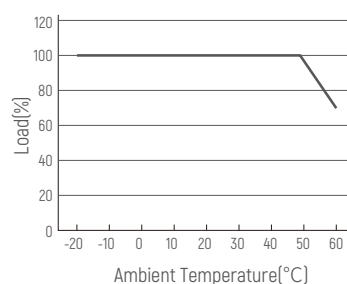
Push DIM Function

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.

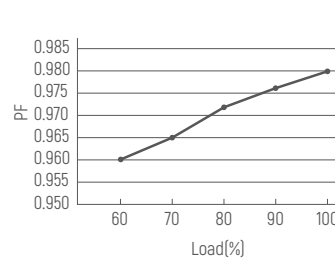
Dimming Curve



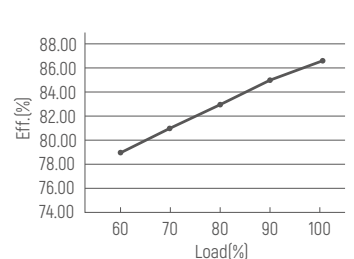
Derating Curve



PF vs Load



Eff. vs Load



Max. quantity of drivers per miniature circuit breaker

MCB type	B16	C16
Installation	1.5mm ²	1.5mm ²
Quantity	36	45

Max. distance between independent use LED driver and LED modules

Distance	5m/16ft	10m/32ft	20m/65ft	30m/98ft
Cable Section	0.5mm ² /AWG20	0.5mm ² /AWG20	1mm ² /AWG17	2.5mm ² /AWG13

※ 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.

EUP20D-1HMC-0

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 IEC62386-207 Ed2.0
- 支持Touch-DIM功能
- 高电压输入：220VAC ~ 240VAC
- 效率高达 85%
- 内建主动式PFC功能
- 短路保护，过载保护，过温保护
- 适用于LED室内灯具,比如筒灯，射灯，面板灯等



应用



技术参数

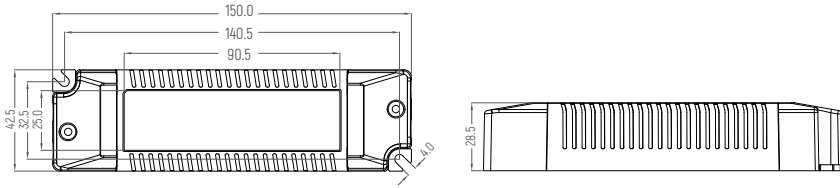
型号	EUP20D-1HMC-0	
输入	效率	85%@230VAC, 满载
	电压	220VAC-240VAC
	频率	50/60Hz
	功率因素	≥0.95@230VAC, 满载
	THD	<10%@230VAC, 满载
	电流	0.12Amax@230VAC
	待机功耗	<0.5W
	浪涌电流	冷启动,18A(在 50%Ipeak 下测twidth=14us)@230VAC
输出	电流/电压/功率	350mA/9-40VDC/14W 500mA/9-40VDC/20W 550mA/9-36VDC/19.8W 700mA/9-28VDC/19.6W
	波纹电流	<3%
	通道	1
	电流精度	±5%
	空载输出电压	50V Max
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
	过压	打嗝，移除故障后自恢复
	过温	关断输出, 当温度恢复正常时自动恢复
安全 & 电磁兼容	浪涌	L-N:1kv
	耐压标准	I/P-O/P: 3000VAC/1min/5mA
	DALI标准	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC62386-207 Ed2.0
	安全标准	IEC/EN61347-1,IEC/EN61347-2-13,GB19510.1,GB19510.14,
	电磁兼容	EN50515,EN61000-3-2 Class C,IEC61000-3-3,GB/T17743
EMC抗扰度	EN61000-4-2,3,4,5,6,8,11 EN61547,GB17625.1	
其它	工作温度	-20°C~50°C
	储存温度、湿度	-40°C~85°C, 20-90%RH
	tc	90°C
	材质	ABS
	防水等级	IP20
	寿命	50,000小时@tc:70°C
	质保	5年
	开关周期	>100,000次
	包装尺寸(重量)	净重: 125g±5%/PCS; 50PCS/Cartron; 6.65kg±5%/箱; 外箱尺寸: 319*254*136cm[长*宽*高]
	尺寸	150*43*29mm (长*宽*高)

电流选择表

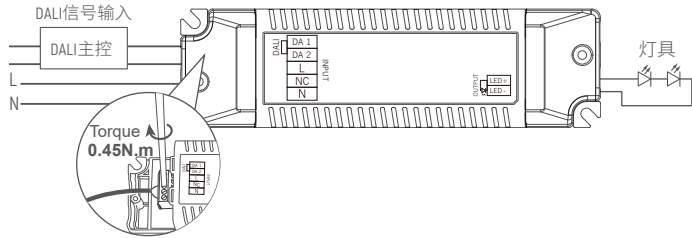
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ON	OFF	1	2	3	4
		350mA	500mA	550mA	700mA
		9-40V	9-40V	9-36V	9-28V

备注：出厂默认设置电流为350mA(12在OFF状态)

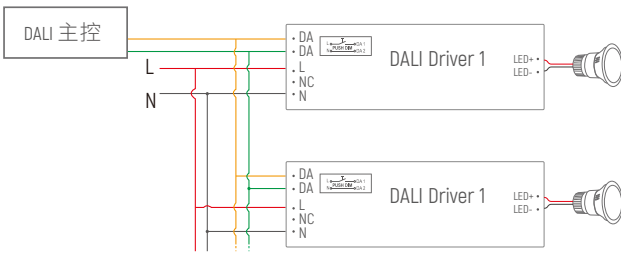
尺寸(mm)



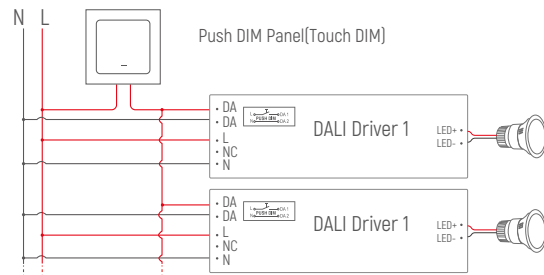
接线图



DALI应用图



Push DIM (Touch DIM)应用图

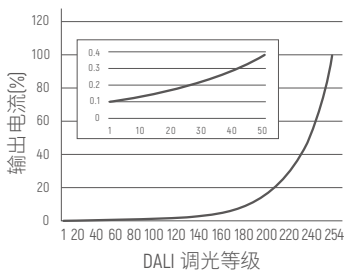


备注: 只能使用开路的按压式开关(不带指示灯). 采用同步连线时每个设备和设备之间的线长不超过20米.

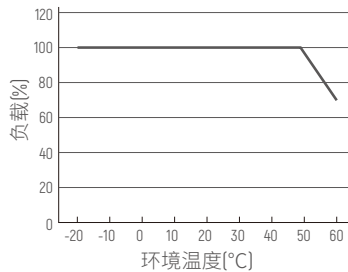
Push DIM 功能

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。

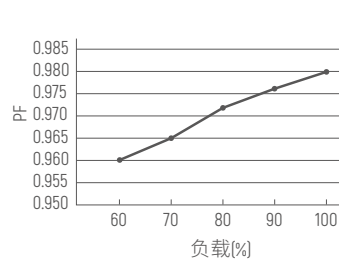
调光曲线



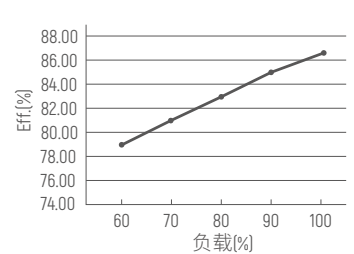
降额曲线



PF vs 负载



Eff. vs 负载



断路器的带载说明

断路器类型	B16	C16
安装线径	1.5mm ²	1.5mm ²
最大允许数量	36	45

驱动与灯具的安装距离

距离	5m/16ft	10m/32ft	20m/65ft	30m/98ft
线径	0.5mm ² /AWG20	0.5mm ² /AWG20	1mm ² /AWG17	2.5mm ² /AWG13

※ 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。