

**EUP50D-1HMC-0** (Product No.:102100272101)

**Summary**

EUP50D-1HMC-0 is a 50W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386. EUP50D-1HMC-0 can be connected to DALI main controller or Touch DIM(Push DIM) to achieve a smooth dimming effect.


**Product Features**

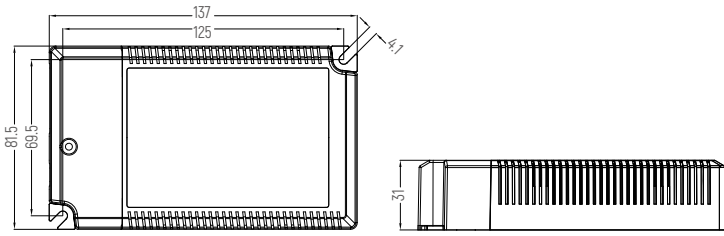
- Single channel output, output current level selectable by DIP S.W.
- Meet DALI Protocol IEC 62386-207 Ed 2.0
- Support Touch DIM (Push DIM)function
- High efficiency up to 89%
- Built-in active PFC function
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load, over Voltage
- Suitable for indoor LED lighting application, such as down light, panel light, and so on


**Application**

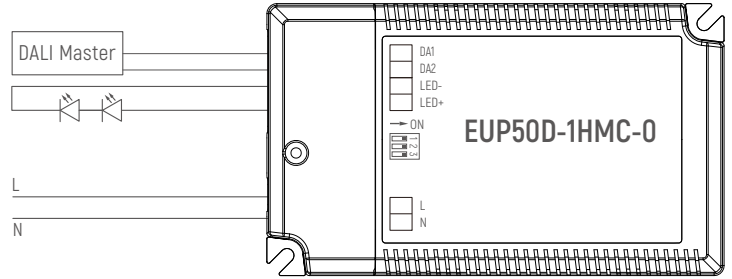
**Technical Parameters**

Model	EUP50D-1HMC-0					
Input	Efficiency	88%@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)	0.28Amax@230VAC				
	Standby power	<0.5W				
	Inrush Current(max)	Cold start,40A(twidth=12.8 us measured at 50% Ipeak)@230VAC				
Output	Current(mA)/Voltage (VDC)	1050mA/9-45VDC/47.25W	1150mA/9-43VDC/49.45W	1250mA/9-40VDC/50W	1350mA/9-37VDC/49.95W	
	Power(W)	1100mA/9-45VDC/49.5W	1200mA/9-42VDC/50.4W	1300mA/9-38VDC/49.4W	1400mA/9-36VDC/50.4W	
	Ripple Current	<3%				
	Channel	1				
	Current Tolerance	±5%				
	No load output voltage	55V Max				
	Turn on delay Time	<1.5s, at230Vac				
Function	Dimming Type	DALI /Touch DIM(Push DIM)				
	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.				
Protection	Over Voltage	The output current decreases and, recovers automatically when the load is reduced.				
	Safety & EMC	Surge	L-N:1KV			
		Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA			
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	80°C				
	Material	ABS				
	IP Rating	IP20				
	Lifetime	50,000h@tc:80°C				
	Warranty Condition	5 Years				
	Switch Cycle	>100,000 tims				
	Packing(weight)	Net weight: 225g±5%/PCS; 50PCS/Carton;11.75kg±5%/Carton; Carton Size: 517*337*179mm(L*W*H)				
	Dimension	137*82*31mm(L*W*H)				

**Dimension(mm)**



**DALI Wiring**

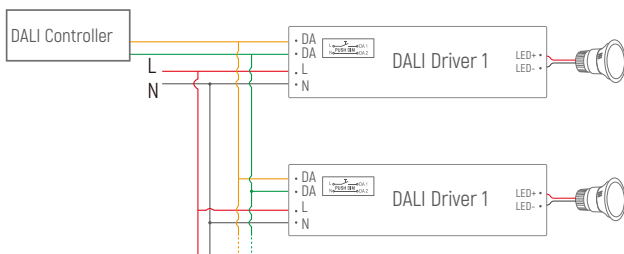


**Current Selection Table**

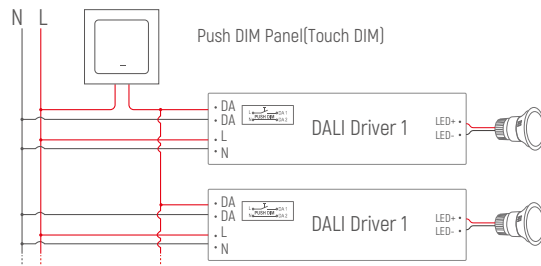
ON	OFF	1	2	3															
		1050mA	1100mA	1150mA	1200mA	1250mA	1300mA	1350mA	1400mA										
		9-45V	9-45V	9-43V	9-42V	9-40V	9-38V	9-37V	9-36V										

Remark: Function default setting is: 1050mA (@switch are all OFF state)

**DALI Diagram**



**Push DIM(Touch DIM) Diagram**

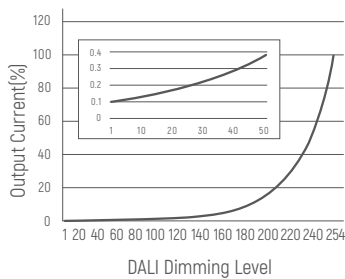


Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

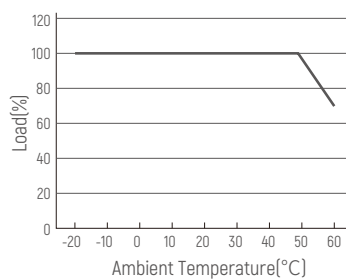
**Push DIM Function**

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.

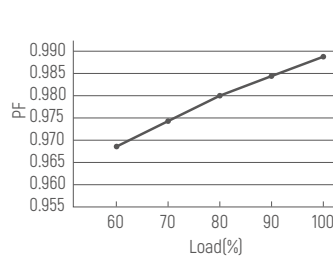
**Dimming Curve**



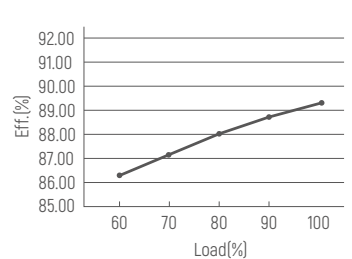
**Derating Curve**



**PF vs Load**



**Eff. vs Load**



**Max. quantity of drivers per miniature circuit breaker**

MCB type	B16	C16
Installation	1.5mm <sup>2</sup>	1.5mm <sup>2</sup>
Quantity	30	38

**Max. distance between independent use LED driver and LED modules**

Distance	2.5m/8ft	5m/16ft	10m/32ft	15m/49ft
Cable Section	0.75mm <sup>2</sup> /AWG18	1mm <sup>2</sup> /AWG17	1.5mm <sup>2</sup> /AWG15	2.5mm <sup>2</sup> /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.

**EUP50D-1HMC-0** (产品代码:102100272101)

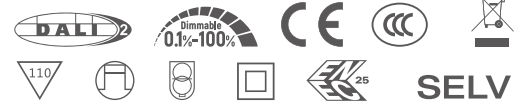
**概述**

EUP50D-1HMC-0是一款可以提供1050/1100/1150/1200/1250/1300/1350/1400mA 8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，可以通过外加DALI主控或Touch DIM开关实现平滑的调光效果。



**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 Ed2.0
- 支持Touch DIM(Push DIM)功能
- 效率高达 89%
- 内建主动式PFC功能
- 平滑调光效果，无间隔
- 保护：短路保护，过载保护，过压保护
- 适用于LED室内灯具,比如筒灯，面板灯等



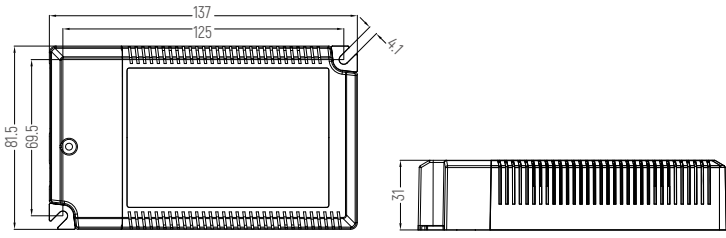
**应用**



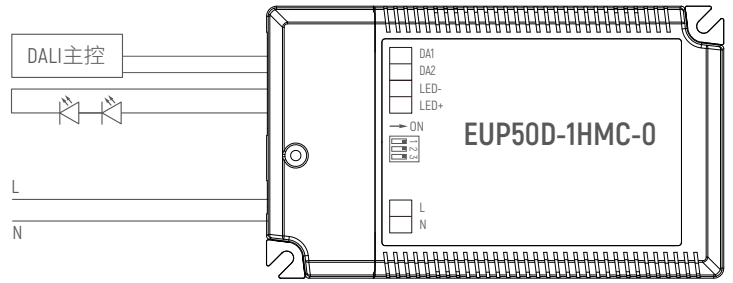
**技术参数**

型号	EUP50D-1HMC-0				
输入	效率	88%@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	0.28Amax@230VAC			
	待机功耗	<0.5W			
	浪涌电流	冷启动, 40A(在 50%peak 下测twidth=12.8us)@230VAC			
输出	电流/电压/功率	1050mA/9-45VDC/47.25W 1100mA/9-45VDC/49.5W	1150mA/9-43VDC/49.45W 1200mA/9-42VDC/50.4W	1250mA/9-40VDC/50W 1300mA/9-38VDC/49.4W	1350mA/9-37VDC/49.95W 1400mA/9-36VDC/50.4W
	波纹电流	<3%			
	通道	1			
	电流精度	±5%			
	空载输出电压	55V Max			
	启动延时	<1.5s, at230Vac			
功能	调光方式	DALI/Touch DIM(Push DIM)			
保护	短路	关断输出，移除故障后自恢复			
	过载	超过输出电压时，输出电流下降,减轻负载自动恢复			
	过压	当超过输出电压时，输出电流减小，当负载降低时自动恢复			
安全与电磁兼容	浪涌	L-N:1KV			
	耐受电压	I/P-O/P: 3000VAC/1min/5mA			
	安全标准	IEC/EN61347-1,IEC/EN61347-2-13,GB19510.1,GB19510.14,			
	电磁骚扰	EN50515,EN61000-3-2 Class C,IEC61000-3-3,GB/T17743			
	电磁抗扰度	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	80°C			
	材质	ABS			
	防水等级	IP20			
	寿命	50,000小时@tc:80°C			
	质保	5年			
	开关周期	>100,000次			
	包装尺寸(重量)	净重: 225g±5%/PCS; 50PCS/ Carton; 11.75kg±5%/箱; 外箱尺寸: 517*337*179mm(长*宽*高)			
	尺寸	137*82*31mm (长*宽*高)			

尺寸(mm)



接线图

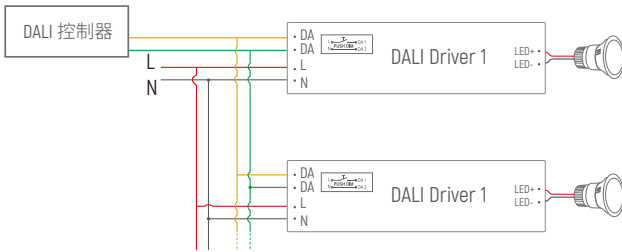


电流选择表

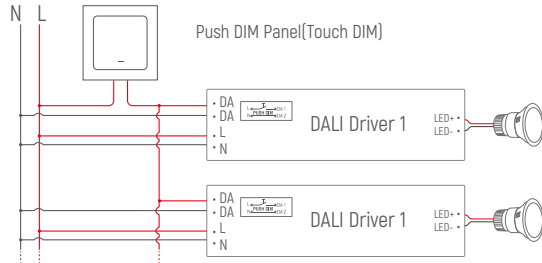
ON	OFF	1	2	3														
		1050mA	1100mA	1150mA	1200mA	1250mA	1300mA	1350mA	1400mA									
		9-45V	9-45V	9-43V	9-42V	9-40V	9-38V	9-37V	9-36V									

备注：出厂默认设置电流为1050mA(12在OFF状态)

DALI应用图



Push DIM (Touch DIM)应用图

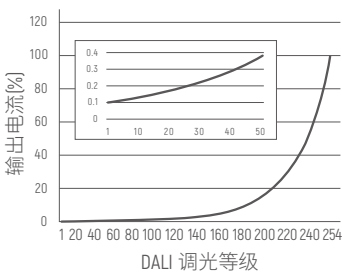


备注：只能使用开路的按压式开关(不带指示灯)。采用同步连线时每个设备和设备之间的线长不超过20米。

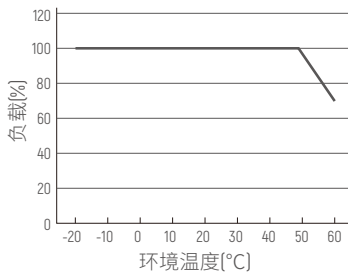
Push DIM 功能

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。

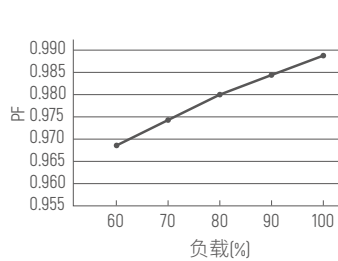
调光曲线



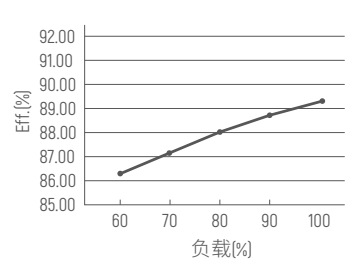
降额曲线



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 <sup>2</sup>	1.5mm <sup>2</sup>
最大允许数量	30	38

驱动与灯具的安装距离

距离	2.5m/8ft	5m/16ft	10m/32ft	15m/49ft
线径	0.75mm <sup>2</sup> /AWG18	1mm <sup>2</sup> /AWG17	1.5mm <sup>2</sup> /AWG15	2.5mm <sup>2</sup> /AWG13

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