

EULP40D-1HMC

Summary

EULP40D-1HMC is a 40W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386 EULP40D-1WMC 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.
- Support DALI software to adjust output current
- Meet DALI protocol IEC 62386
- Support Touch DIM function
- High efficiency up to $\geq 92\%$
- Built-in active PFC function
- Logarithmic dimming, dimming effect smooth, no flicker
- Protections: Short circuit, Over load, Over voltage
- Suitable for indoor LED lighting application, vapor light, and so on



Application



Technical Paramaters

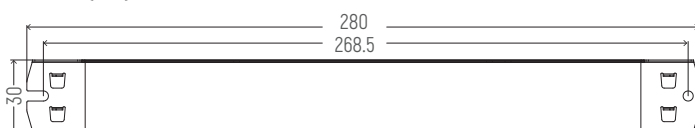
Model	EULP40D-1HMC			
Input	Efficiency	$\geq 92\%$ @230VAC, Full load		
	Voltage	220VAC-240VAC		
	Frequency Range(Hz)	50/60Hz		
	Power Factor	≥ 0.95 @230VAC, Full load		
	THD(full load)	$\leq 10\%$ @230VAC, Full load		
	AC Current(max)	0.2Amax@220VAC		
	Inrush Current(max)	Cold start, 28A@230VAC 240us		
	Standby power	<0.5W		
	No load power	<0.5W		
	Turn on delay Time	<0.5s, at 230Vac (When the light begins to shine)		
Output	Current(mA)/Voltage (VDC)	80mA/100-250V/20W	120mA/100-250V/30W	160mA/100-250V/40W
	Power(W)	240mA/100-166V/39.84W	280mA/100-142V/39.76W	320mA/100-125V/40W
	Channel	1		
	Current Tolerance	$\pm 5\%$		
	No load output voltage	250VDC max		
Function	Dimming Type	DALI, Touch DIM		
	Dimming Range	1%-100%		
Protection	Short circuit	Close output, recovers automatically after fault removed		
	Over Load	No output, power off and restart		
	Voltage Load	No output, power off and restart		
Safety& EMC	Surge	L-N:1kV L/N-PE:2kV		
	Withstand Voltage	I-PE: 1500VAC/1min/5mA O-PE: 1500VAC/1min/5mA		
	Safety Standards	EN61347, EN61347		
	EMC Emission	EN50515, EN61000-3-2		
	EMC Immunity	EN61000-3-3, EN61000-3-2, EN61547		
	Insulation Resisance	5M Ω		
Others	Working Temp.	-20°C~60°C		
	Storage Temp., Humidity	-40°C~85°C, 20-90%RH		
	tc	70°C		
	Material	Metal		
	IP Rating	IP20		
	Lifetime	50,000h@tc:70°C		
	Warranty Condition	5 years		
	Switch Cycle	>25,000 times		
	Packing(weight)	Net weight: TBDg $\pm 5\%$ /PCS; 50PCS/Carton; TBDkg $\pm 5\%$ /Carton; Carton Size:498*334*130mm(L*W*H)		
	Dimension	280*30*21mm (L*W*H)		

Current Selection Table

ON	OFF	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		80mA	120mA	160mA	200mA	240mA	280mA	320mA	350mA												
		100-250V	100-250V	100-250V	100-200V	100-166V	100-142V	100-125V	100-114V												

Remark: Function default setting is: 80mA (@switch are all OFF state)

Dimension(mm)

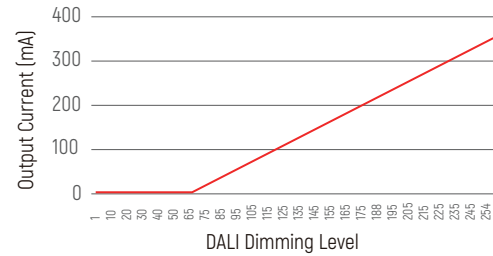


DALI Wiring

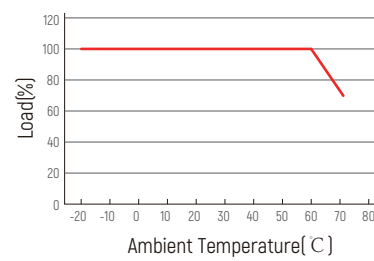


DALI Signal Input

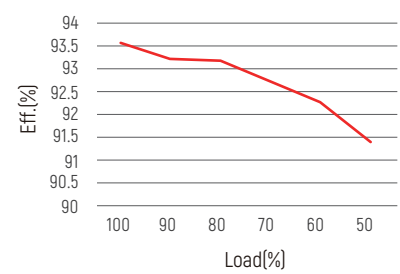
Dimming Curve



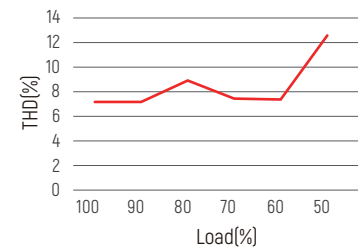
Derating Curve



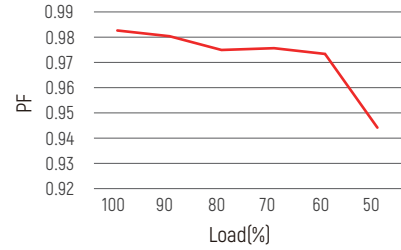
Eff. vs Load



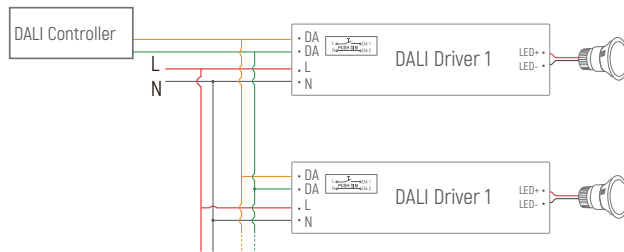
THD



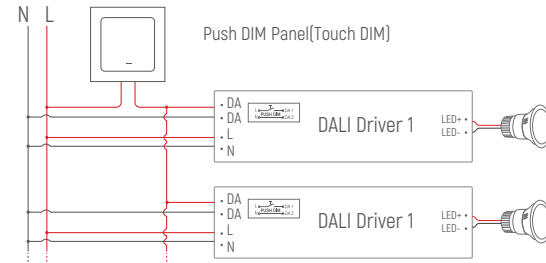
PF vs Load



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.

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.

EULP40D-1HMC

概述

EULP40D-1HMC一款40W交流变直流LED驱动器，输出电流可以通过DIP开关选择，符合DALI标准协议IEC62386。连接DALI主控或Touch DIM可以实现平滑的调光效果。

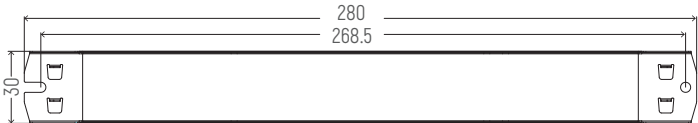
产品特点

- 单通道恒流输出，多级电流可选
- 支持DALI软件调节输出电流
- 遵循DALI协议标准 IEC62386
- 支持Touch DIM功能
- 效率高达≥92%
- 内置主动式PFC功能
- 短路保护，过载保护，过压保护
- 适用于LED室内灯具,比如三防灯等

技术参数

型号	EULP40D-1HMC																									
输入	效率	≥92%@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	0.2Amax@230VAC																								
	浪涌电流	冷启动,28A@230VAC 240us																								
	待机功耗	<0.5W																								
	空载功耗	<0.5W																								
	启动延时	≤0.5 s, at230Vac(当光线亮起)																								
输出	电流/电压/功率	80mA/100-250V/20W 240mA/100-166V/39.84W	120mA/100-250V/30W 280mA/100-142V/39.76W	160mA/100-250V/40W 320mA/100-125V/40W	200mA/100-200V/40W 350mA/100-114V/39.9W																					
	通道	1	电流选择表 <table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>ON</td><td>OFF</td><td>80mA 100-250V</td><td>120mA 100-250V</td><td>160mA 100-250V</td><td>200mA 100-200V</td><td>240mA 100-166V</td><td>280mA 100-142V</td><td>320mA 100-125V</td><td>350mA 100-114V</td></tr></table>														ON	OFF	80mA 100-250V	120mA 100-250V	160mA 100-250V	200mA 100-200V	240mA 100-166V	280mA 100-142V	320mA 100-125V	350mA 100-114V
	ON	OFF				80mA 100-250V	120mA 100-250V	160mA 100-250V	200mA 100-200V	240mA 100-166V	280mA 100-142V	320mA 100-125V	350mA 100-114V													
电流精度	±5%																									
空载电压	250VDC max																									
功能	调光方式	DALI, Touch DIM																								
	调光范围	1%-100%																								
保护	短路	短路无输出，排除故障输出正常																								
	过载	无输出 需断电重启																								
	过压	无输出 需断电重启																								
安全 & 电磁兼容	雷击浪涌	L-N:1kV L/N-PE:2kV																								
	耐压标准	I-PE: 1500VAC/1min/5mA O-PE: 1500VAC/1min/5mA																								
	安全标准	EN61347, GB19510																								
	电磁兼容	EN50515, EN61000-3-2																								
	EMC抗扰度	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547																								
其它	绝缘阻抗	5MΩ																								
	工作温度	-20°C~60°C																								
	储存温度、湿度	-40°C~85°C, 20-90%RH																								
	tc	70°C																								
	材质	金属																								
	防水等级	IP20																								
	寿命	50,000小时@tc:70°C																								
	质保	5年																								
	开关周期	>25,000次																								
	包装尺寸(重量)	净重: TBDg ±5%/PCS; 50 PCS/Cartron; TBD kg±5%/箱; 外箱尺寸:498*334*130mm[长*宽*高]																								
尺寸	280*30*21mm (长*宽*高)																									

尺寸(mm)



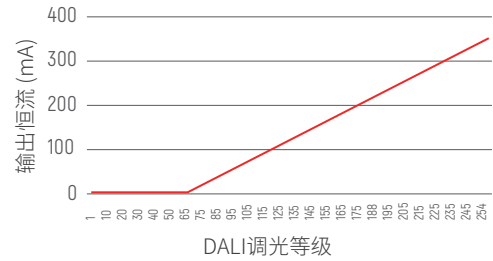
接线图



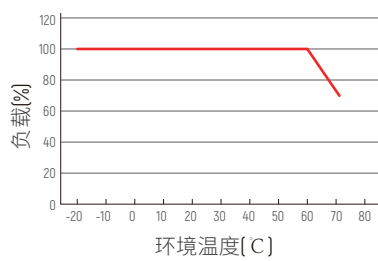
DALI 信号输入

调光曲线

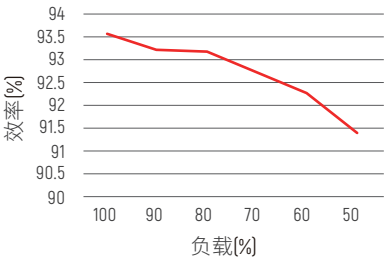
Dimming Curve



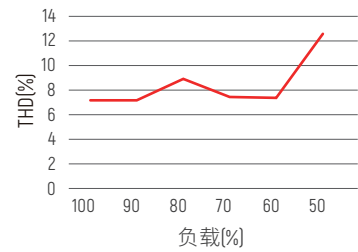
降额曲线



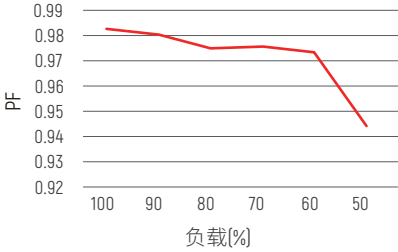
效率 vs 负载



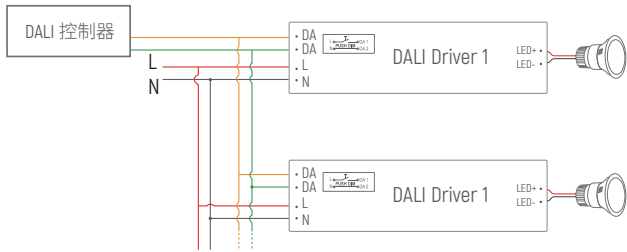
THD



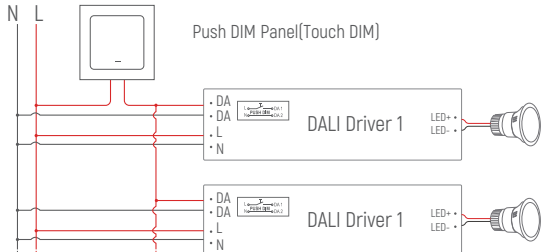
PF vs 负载



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。

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。