

EULP100D-1HMC

Summary

EULP100D-1HMC is a 100W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386 EULP100D-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 ≥94%
- 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



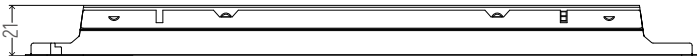
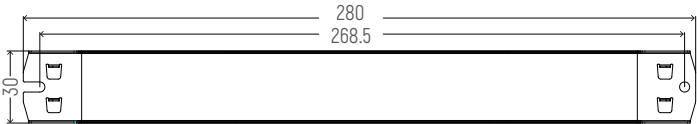
Application



Technical Paramaters

Model	EULP100D-1HMC																																																			
Input	Efficiency	≥94%@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)	0.55Amax@230VAC																																																		
	No load power	<0.5W																																																		
	Standby power	<0.5W																																																		
	Inrush Current(max)	Cold start,60A(twidth=28.9us measured at 50% Ipeak)@230VAC																																																		
Output	Current(mA)/Voltage (VDC)	150mA/180-250V/37.5W		200mA/150-250V/50W		250mA/120-250V/62.5W		300mA/100-250V/75W																																												
	Power(W)	350mA/100-250V/87.5W		400mA/100-250V/100W		450mA/100-220V/99W		500mA/100-200V/100W																																												
	Channel	1		Current Selection Table <table><tr><td>☐</td><td>☐</td><td>1</td><td>☐</td><td>2</td><td>☐</td><td>3</td><td>☐</td><td>☐</td><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>150mA</td><td>200mA</td><td>250mA</td><td>300mA</td><td>350mA</td><td>400mA</td><td>450mA</td><td>500mA</td></tr><tr><td></td><td></td><td>180-250V</td><td>150-250V</td><td>120-250V</td><td>100-250V</td><td>100-250V</td><td>100-250V</td><td>100-250V</td><td>100-220V</td><td>100-200V</td></tr></table>								☐	☐	1	☐	2	☐	3	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	ON	OFF	150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA			180-250V	150-250V	120-250V	100-250V	100-250V	100-250V	100-250V	100-220V	100-200V
	☐	☐	1									☐	2	☐	3	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																								
	ON	OFF	150mA									200mA	250mA	300mA	350mA	400mA	450mA	500mA																																		
		180-250V	150-250V	120-250V	100-250V	100-250V	100-250V	100-250V	100-220V	100-200V																																										
Current Tolerance	±5% (150mA ±7%, 200mA ±7%)																																																			
No load output voltage	330VMax																																																			
Function	Dimming Type	DALI, Touch DIM																																																		
	Dimming Range	1%-100%																																																		
Protection	Short circuit	No output, need to power off and restart after troubleshooting																																																		
	Over Load	No output, need to power off and restart after troubleshooting																																																		
	Voltage Load	No output, need to power off and restart after troubleshooting																																																		
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, GB19510																																																		
	EMC Emission	EN55015, EN61000-3-2																																																		
	EMC Immunity	EN61000-3-2, 3, 4, 5, 6, 8, 11; EN61547																																																		
	Insulation Resisance	5MΩ																																																		
Others	Working Temp.	-20°C~60°C																																																		
	Storage Temp., Humidity	-40°C~85°C, 20-90%RH																																																		
	tc	80°C																																																		
	Material	Metal																																																		
	IP Rating	IP20																																																		
	Lifetime	50,000h@tc:80°C																																																		
	Warranty Condition	5 years																																																		
	Switch Cycle	>25,000 times																																																		
	Packing(weight)	Net weight: 232g±5%/PCS; 50PCS/Carton; 12.1kg±5%/Carton; Carton Size:498*334*130mm(L*W*H)																																																		
	Dimension	280*30*21mm (L*W*H)																																																		

Dimension(mm)

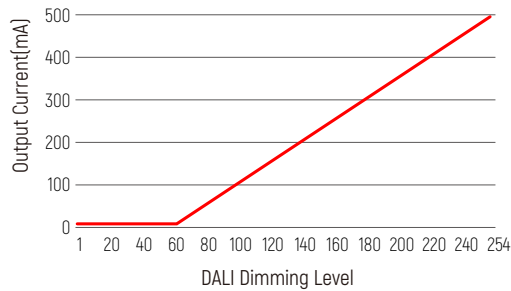


DALI Wiring

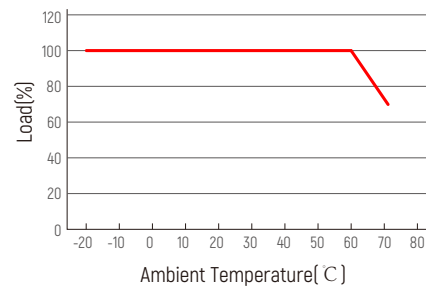


DALI Signal Input

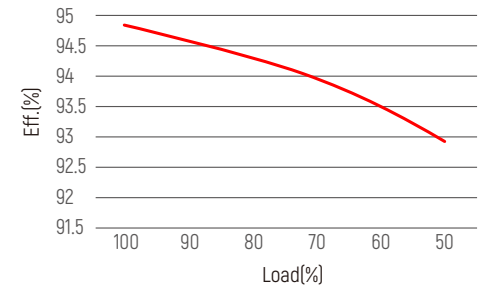
Dimming Curve



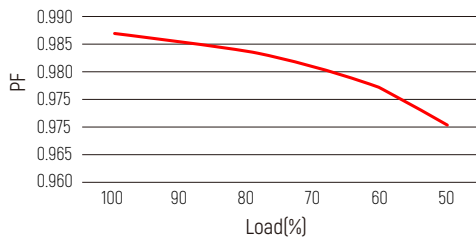
Derating Curve



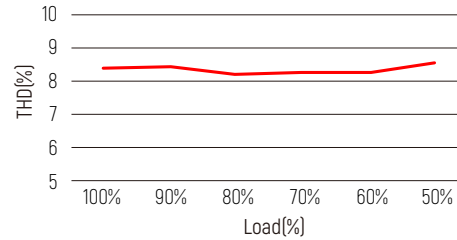
Eff. vs Load



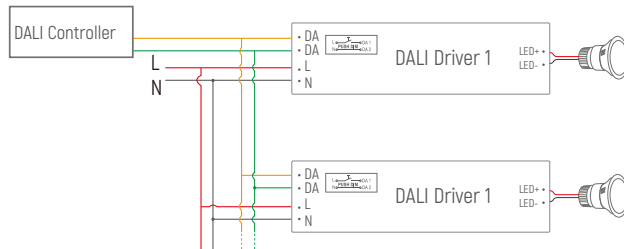
PF vs Load



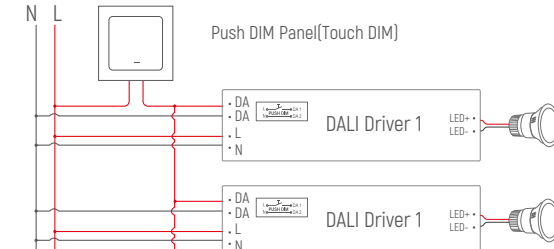
THD



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.

EULP100D-1HMC

概述

EULP100D-1HMC一款100W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≥94%
- 内建主动式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



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

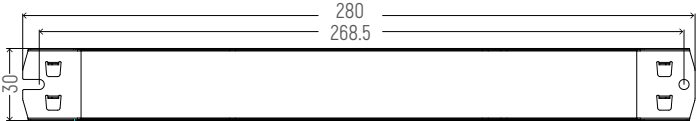
型号	EULP100D-1HMC				
输入	效率	≥94%@230VAC, 满载			
	电压	220VAC-240VAC			
	频率	50/60Hz			
	功率因素	>0.95@230VAC, 满载			
	THD	≤10%@230VAC, 满载			
	电流	0.55Amax@230VAC			
	空载功耗	<0.5W			
	待机功耗	<0.5W			
	浪涌电流	冷启动,60A(在 50%Ipeak下测twidth=14us)@230VACC			
输出	电流/电压/功率	150mA/180-250V/37.5W 350mA/100-250V/87.5W	200mA/150-250V/50W 400mA/100-250V/100W	250mA/120-250V/62.5W 450mA/100-220V/99W	300mA/100-250V/75W 500mA/100-200V/100W
	通道	1			
	电流公差	±5% (150mA ±7%, 200mA ±7%)			
	空载输出电压	330VMax			
功能	调光方式	DALI, Touch DIM			
	调光范围	1%-100%			
保护	短路	无输出,排除故障后需断电重启			
	过载	无输出,排除故障后需断电重启			
	过压	无输出,排除故障后需断电重启			
安全 & 电磁兼容	雷击	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	EN55015, 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	80°C			
	材质	金属			
	防水等级	IP20			
	寿命	50,000小时@tc:80°C			
	质保	5年			
	开关周期	>25,000次			
	包装尺寸(重量)	净重: 232g ±5%/PCS; 50 PCS/Cartron; 12.1 kg±5%/箱; 外箱尺寸:498*334*130mm[长*宽*高]			
	尺寸	280*30*21mm (长*宽*高)			

电流选择表

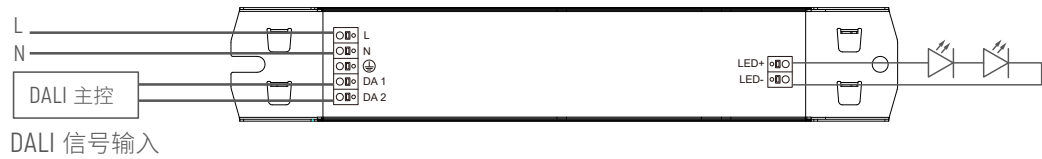
ON	OFF	150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA		
		180-250V	150-250V	120-250V	100-250V	100-250V	100-250V	100-250V	100-220V	100-200V	

备注：出厂默认设置电流为150mA(1,2,3在OFF状态)

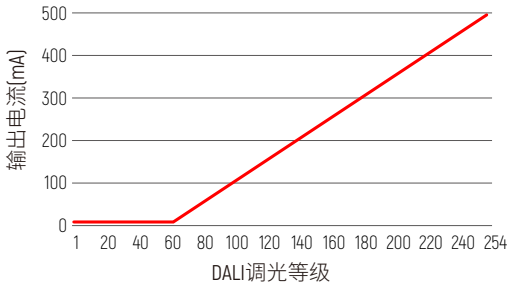
尺寸(mm)



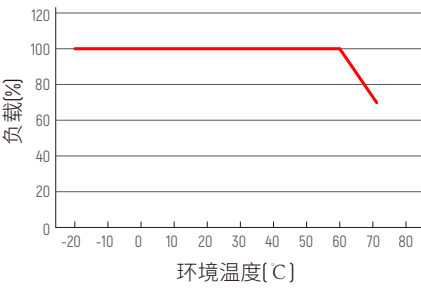
接线图



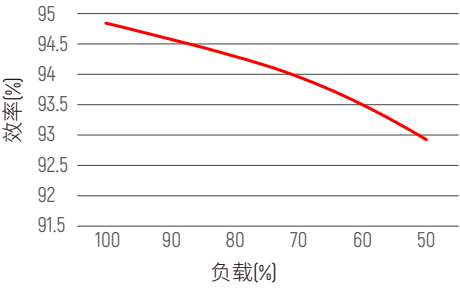
调光曲线



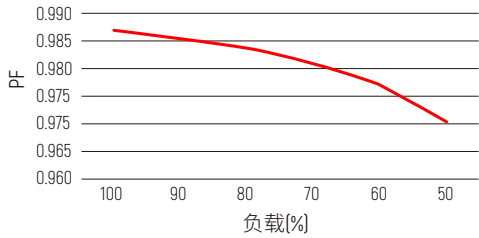
降额曲线



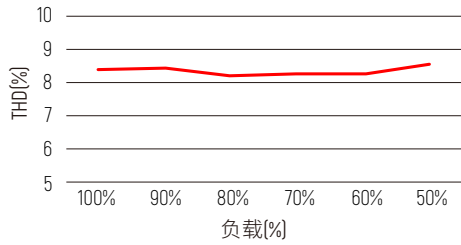
效率vs负载



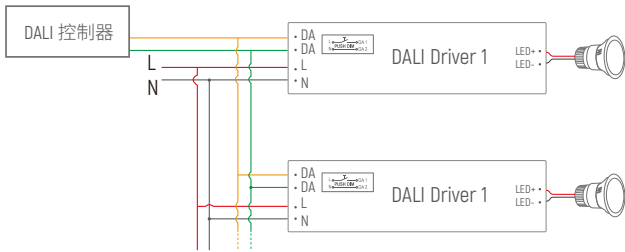
PFvs负载



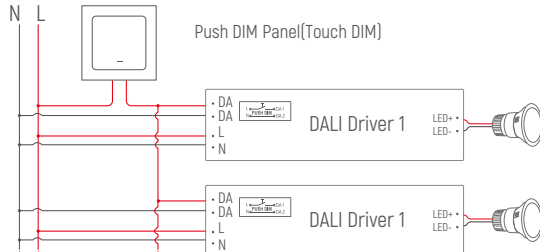
THD曲线



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。