

EULP150D-1HMC

Summary

EULP150D-1HMC is a 150W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386 EULP150D-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 ≥95%
- 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



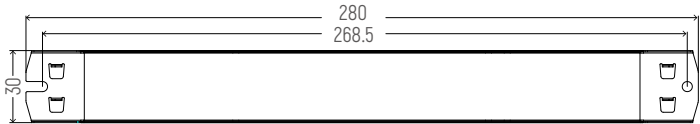
Application



Technical Paramaters

Model	EULP150D-1HMC																																																																																					
Input	Efficiency	≥95%@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)	0.86Amax@230VAC																																																																																				
	No load power	<0.5W																																																																																				
	Standby power	<0.5W																																																																																				
	Inrush Current(max)	Cold start,80A@230VAC 120us																																																																																				
Output	Current(mA)/Voltage (VDC)	350mA/100-250V/87.5W		400mA/100-250V/100W		450mA/100-250V/112.5W		500mA/100-250V/125W																																																																														
	Power(W)	550mA/100-250V/137.5W		600mA/100-240V/144W		650mA/100-230V/149.5W		700mA/100-214V/149.8W																																																																														
	Channel	1		Current Selection Table <table><tr><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>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr><tr><td>ON</td><td>OFF</td><td>1</td><td>2</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></td><td></td><td>350mA</td><td>400mA</td><td>450mA</td><td>500mA</td><td>550mA</td><td>600mA</td><td>650mA</td><td>700mA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>100-250V</td><td>100-250V</td><td>100-250V</td><td>100-250V</td><td>100-250V</td><td>100-250V</td><td>100-240V</td><td>100-230V</td><td>100-214V</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	ON	OFF	1	2	3																350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA											100-250V	100-250V	100-250V	100-250V	100-250V	100-250V	100-240V	100-230V	100-214V								
	☐	☐	☐										☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																										
	ON	OFF	1										2	3																																																																								
		350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA																																																																													
		100-250V	100-250V	100-250V	100-250V	100-250V	100-250V	100-240V	100-230V	100-214V																																																																												
Current Tolerance	±5%																																																																																					
No load output voltage	300VDC max																																																																																					
Function	Dimming Type	DALI, Touch DIM		Remark: Function default setting is: 350mA (@switch are all OFF state)																																																																																		
	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, EN61347																																																																																				
	Performance	EN62384, EN62386																																																																																				
	EMI	EN55015, FCC Part 15 Class A																																																																																				
	Other EMC	EN61000-3-3, EN61000-3-2, EN61547																																																																																				
Others	Working Temp.	-20℃~60℃																																																																																				
	Storage Temp., Humidity	-40℃~85℃, 20-90%RH																																																																																				
	tc	80℃																																																																																				
	Material	Metal																																																																																				
	IP Rating	IP20																																																																																				
	Lifetime	50,000h@tc:80℃																																																																																				
	Warranty Condition	5 years																																																																																				
	Switch Cycle	>25,000 times																																																																																				
	Packing(weight)	Net weight: TBDg±5%/PCS; TBDPCS/Carton; TBDkg±5%/Carton; Carton Size:--*--*--mm(L*W*H)																																																																																				
	Dimension	280*30*21mm (L*W*H)																																																																																				

Dimension(mm)

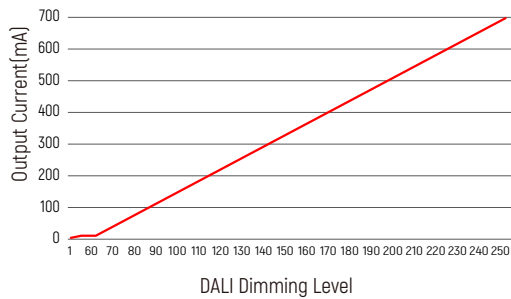


DALI Wiring

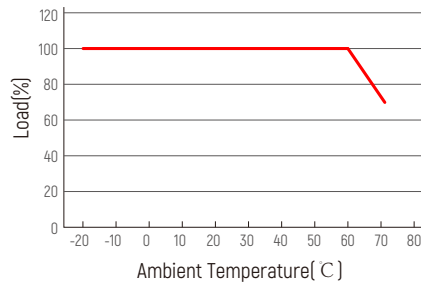


DALI Signal Input

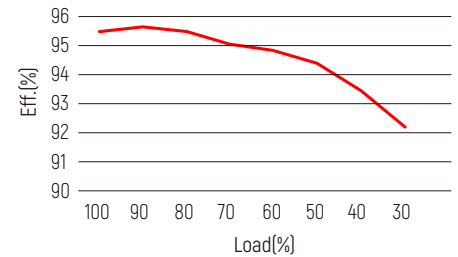
Dimming Curve



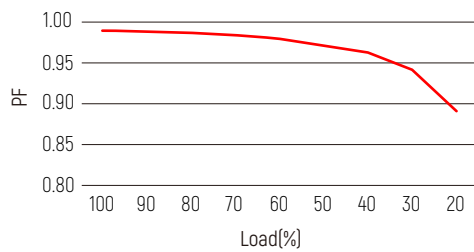
Derating Curve



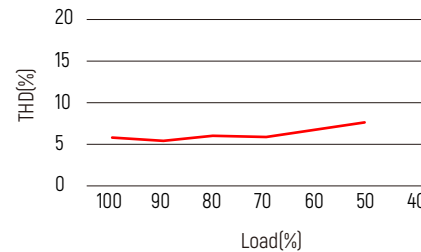
Eff. vs Load



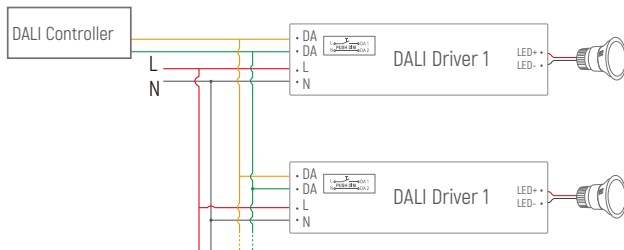
PF vs Load



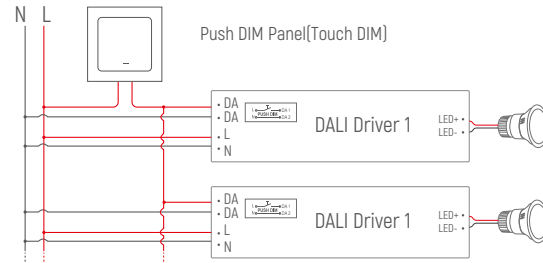
THD



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.

EULP150D-1HMC

概述

EULP150D-1HMC一款150W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。

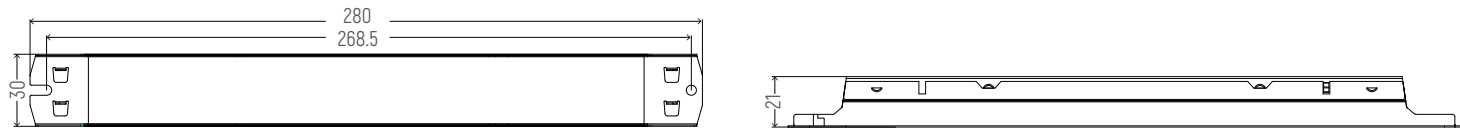
产品特点

- 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≥95%
- 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

技术参数

型号	EULP150D-1HMC																																						
输入	效率	≥95%@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	0.86Amax@230VAC																																					
	空载功耗	<0.5W																																					
	待机功耗	<0.5W																																					
	浪涌电流	Cold start,80A@230VAC 120us																																					
输出	电流/电压/功率	350mA/100-250V/87.5W 550mA/100-250V/137.5W		400mA/100-250V/100W 600mA/100-240V/144W		450mA/100-250V/112.5W 650mA/100-230V/149.5W		500mA/100-250V/125W 700mA/100-214V/149.8W																															
	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></tr><tr><td>ON</td><td>OFF</td><td>350mA</td><td>400mA</td><td>450mA</td><td>500mA</td><td>550mA</td><td>600mA</td><td>650mA</td><td>700mA</td></tr><tr><td></td><td></td><td>100-250V</td><td>100-250V</td><td>100-250V</td><td>100-250V</td><td>100-250V</td><td>100-240V</td><td>100-230V</td><td>100-214V</td></tr></table> 备注：出厂默认设置电流为350mA(1,2,3在OFF状态)						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	ON	OFF	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA			100-250V	100-250V	100-250V	100-250V	100-250V	100-240V	100-230V	100-214V
	☐	☐	☐							☐	☐	☐	☐	☐	☐	☐																							
	ON	OFF	350mA							400mA	450mA	500mA	550mA	600mA	650mA	700mA																							
		100-250V	100-250V	100-250V	100-250V	100-250V	100-240V	100-230V	100-214V																														
电流公差	±5%																																						
空载输出电压	300VDC max																																						
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	EN55015, EN61000-3-2																																					
	EMC抗扰度	EN61000-3-2, 3, 4, 5, 6, 8, 11; EN61547																																					
	绝缘阻抗	5MΩ																																					
其它	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: TBDg ±5%/PCS; TBD PCS/Carton; TBD kg±5%/箱; 外箱尺寸:--*--*--mm(长*宽*高)																																					
	尺寸	280*30*21mm (长*宽*高)																																					

尺寸(mm)

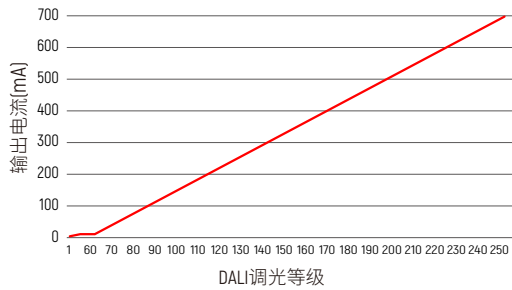


接线图

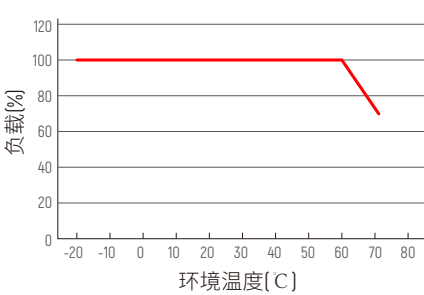


DALI 信号输入

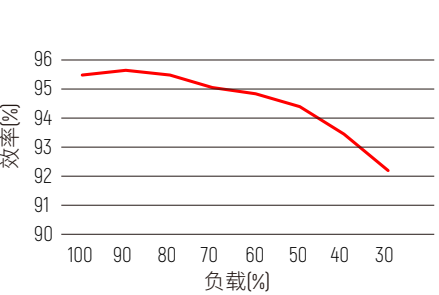
调光曲线



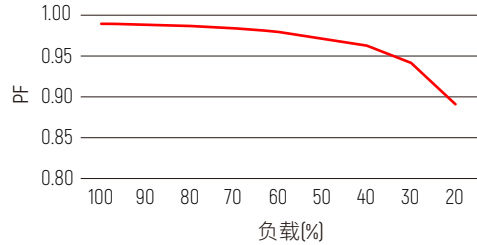
降额曲线



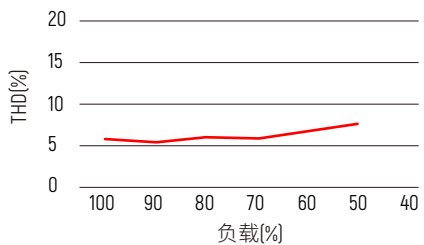
效率vs负载



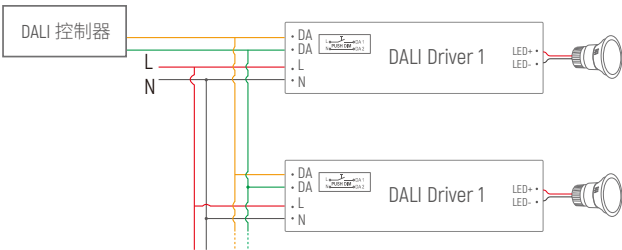
PFvs负载



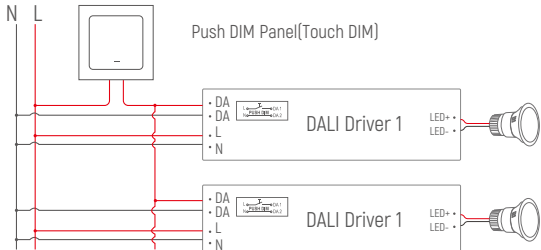
THD曲线



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。