

EULP60D-1HMC

Summary

EULP60D-1HMC is a 60W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386 EULP60D-1HMC 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 $\geq 93\%$
- 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



Downlight



Panel Light



Spotlight



Ceiling Light



Linear light



Floor Light



Flood Light



Technical Parameters

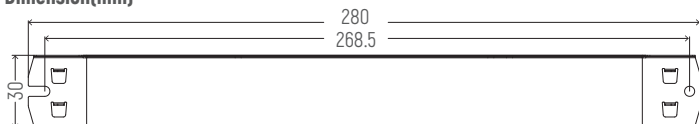
Model	EULP60D-1HMC				
Input	Efficiency	$\geq 93\%$ @230VAC, Full load			
	Voltage	220VAC-240VAC			
	Frequency Range(Hz)	50/60Hz			
	Power Factor	≥ 0.95 @230VAC, Full load			
	THD[full load]	$\leq 10\%$ @230VAC, Full load			
	AC Current(max)	0.35Amax@230VAC			
	No load power	$\leq 0.5W$			
	Standby power	$\leq 0.5W$			
	Inrush Current(max)	Cold start, 40A(twidth=200us measured at 50% Ipeak)@230VAC			
	Turn on delay Time	$\leq 0.5s$, at 230Vac (When the light begins to shine)			
Output	Current(mA)/Voltage (VDC)	150mA/80-250V/37.5W	200mA/80-250V/50W	250mA/80-240V/60W	300mA/80-200V/60W
	Power(W)	350mA/80-170V/59.5W	400mA/80-150V/60W	450mA/80-130V/58.5W	500mA/80-120V/60W
	Channel	1			
	Current Tolerance	$\pm 5\%$ (150mA $\pm 7\%$, 200mA $\pm 7\%$)			
Function	No load output voltage	330VMax			
	Dimming Type	DALI2.0, Touch DIM			
	Dimming Range	0.5%-100%			
	Dimming curve	Logarithm			
	Flicker	No Flicker			
Protection	Short circuit	Close output, recovers automatically after fault removed			
	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	IEC/EN61347-1, IEC/EN61347-2-13, GB19510.1, GB19510.14			
	EMC Emission	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN55015, EN61000-3-2; GB17626.3, 4, 5, 6, 8, 11; GB17743 GB17625.1, 2			
	Insulation Resisance	5M Ω			
Others	Working Temp.	$-20^{\circ}C \sim 60^{\circ}C$			
	Storage Temp., Humidity	$-40^{\circ}C \sim 85^{\circ}C$, 20-90%RH			
	tc	75 $^{\circ}C$			
	Material	Metal			
	IP Rating	IP20			
	Lifetime	50,000h@tc:75 $^{\circ}C$			
	Warranty Condition	5 years			
	Switch Cycle	$> 25,000$ times			
	Packing(weight)	Net weight: 200g $\pm 5\%$ /PCS; 50PCS/Carton; 10.5kg $\pm 5\%$ /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
		150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA												
		80-250V	80-250V	80-240V	80-200V	80-170V	80-150V	80-130V	80-120V												

Remark: Function default setting is: 150mA (@switch are all OFF state)

Dimension(mm)

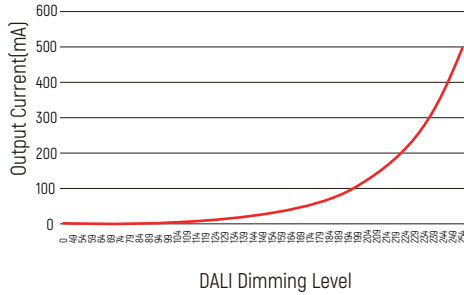


DALI Wiring

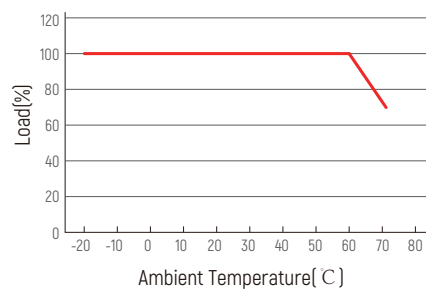


DALI Signal Input

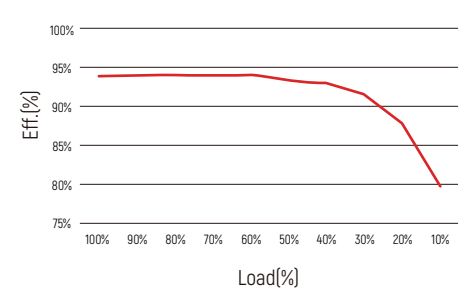
Dimming Curve



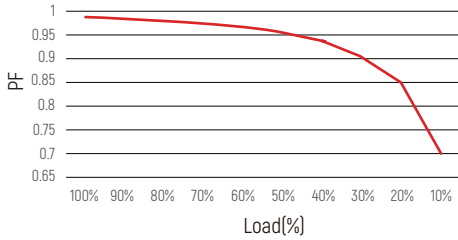
Derating Curve



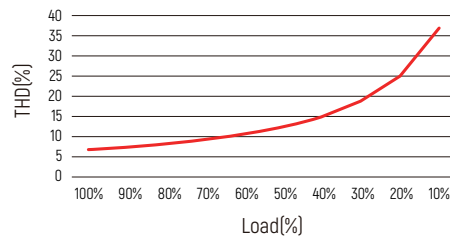
Eff. vs Load



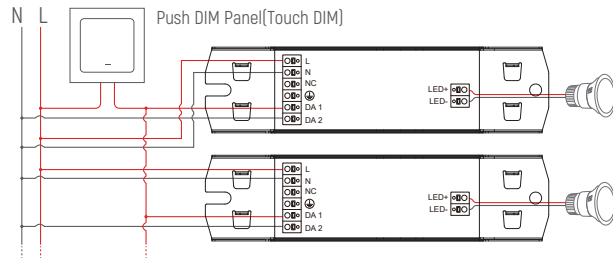
PF vs Load



THD vs Load



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.

EULP60D-1HMC

概述

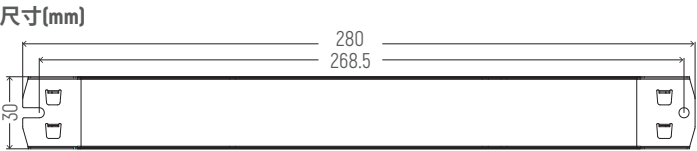
EULP60D-1HMC一款60W交流变直流LED驱动器，输出电流可以通过DIP开关选择，符合DALI标准协议IEC62386。连接DALI主控或Touch DIM可以实现平滑的调光效果。

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≥93%
- 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	EULP60D-1HMC																																										
输入	效率	≥93%@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	0.35Amax@230VAC																																									
	空载功耗	≤0.5W																																									
	待机功耗	≤0.5W																																									
	浪涌电流	冷启动,40A(在 50%Ipeak下测twidth=200us)@230VACC																																									
	启动延时	≤0.5 s, at230Vac [当灯光开始亮起]																																									
输出	电流/电压/功率	150mA/80-250V/37.5W 350mA/80-170V/59.5W	200mA/80-250V/50W 400mA/80-150V/60W	250mA/80-240V/60W 450mA/80-130V/58.5W	300mA/80-200V/60W 500mA/80-120V/60W																																						
	通道	1	电流选择表																																								
	电流公差	±5% [150mA ±7%, 200mA ±7%]	<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>150mA</td><td>200mA</td><td>250mA</td><td>300mA</td><td>350mA</td><td>400mA</td><td>450mA</td><td>500mA</td><td></td></tr><tr><td colspan="2"></td><td>80-250V</td><td>80-250V</td><td>80-240V</td><td>80-200V</td><td>80-170V</td><td>80-150V</td><td>80-130V</td><td>80-120V</td><td></td></tr></table>								☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	ON	OFF	150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA				80-250V	80-250V	80-240V	80-200V	80-170V	80-150V	80-130V	80-120V	
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																
ON	OFF	150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA																																		
		80-250V	80-250V	80-240V	80-200V	80-170V	80-150V	80-130V	80-120V																																		
空载输出电压	330VMax																																										
功能	调光方式	DALI2.0, Touch DIM																																									
	调光范围	0.5%-100%		备注：出厂默认设置电流为150mA(1,2,3在OFF状态)																																							
	调光曲线	对数																																									
	频闪	无																																									
保护	短路	无输出和移除后自恢复																																									
	过压	无输出,排除故障需断电重启																																									
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	IEC/EN61347-1, IEC/EN61347-2-13, GB19510.1, GB19510.14																																									
	电磁兼容	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN55015, EN61000-3-2; GB17626.3, 4, 5, 6, 8, 11; GB17743 GB17625.1, 2																																									
	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	75°C																																									
	材质	金属																																									
	防水等级	IP20																																									
	寿命	50,000小时@tc75°C																																									
	质保	5年																																									
	开关周期	>25,000次																																									
	包装尺寸(重量)	净重: 200g ±5%/PCS; 50 PCS/ Carton; 10.5kg±5%/箱; 外箱尺寸:498*334*130mm[长*宽*高]																																									
尺寸	280*30*21mm (长*宽*高)																																										

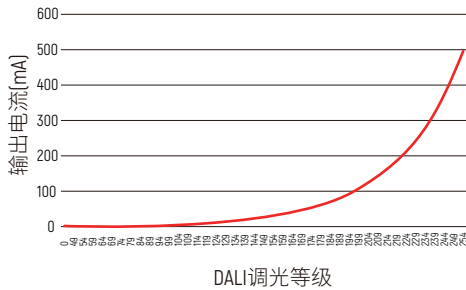


接线图

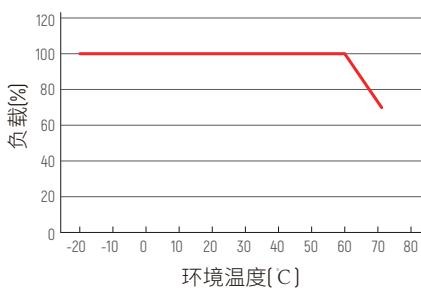


DALI 信号输入

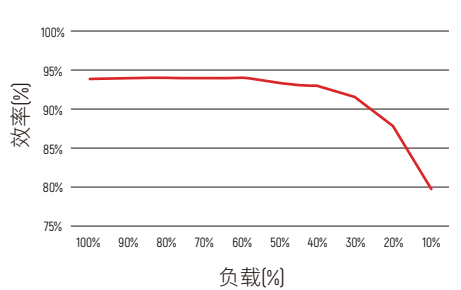
调光曲线



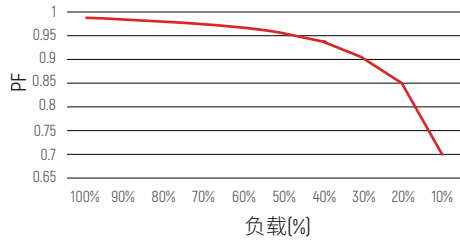
降额曲线



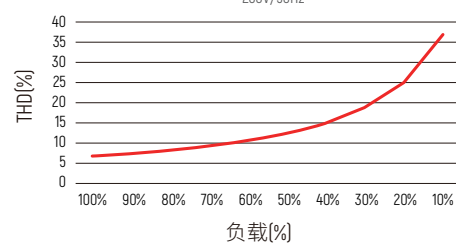
效率vs负载



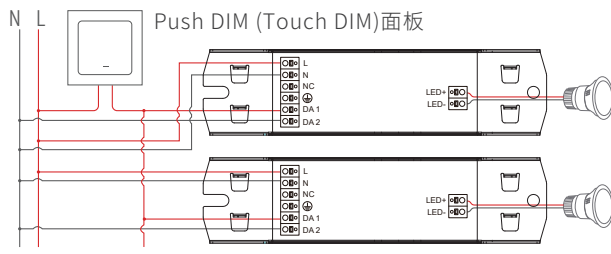
PFvs负载



THD曲线



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。