

## EULP65D-1HMC

### summary

EULP65D-1HMC is an AC to DC LED Driver with adjustable output current. It can be selected by dip switch, which conforms to Dali standard protocol iec62386. Connect Dali master Control or touch dim can achieve smooth dimming effect.



### Product features

- Single channel constant current output, multistage current optional
- Support DALI software to adjust output current
- Comply with Dali protocol standard iec62386
- Support touch dim function
- Built in active PFC function
- Short circuit , Over load, Over Voltage protection
- It is suitable for LED indoor lamps, such as downlight, panel lamp, three prevention lamp, etc

#### Application

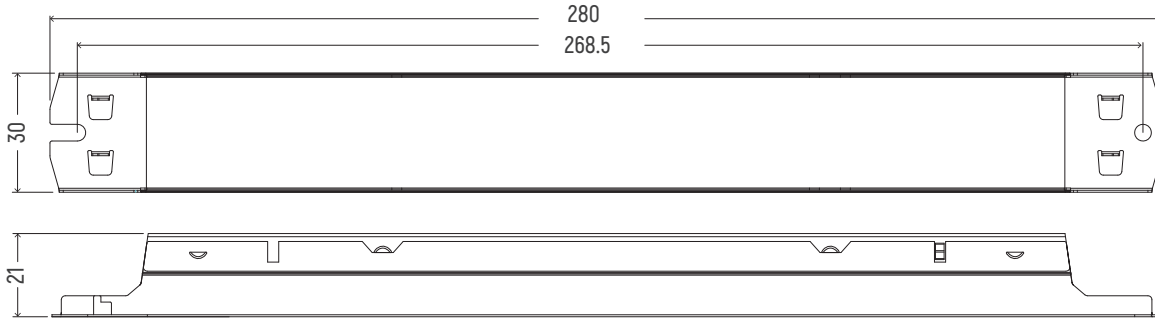


### technical parameter

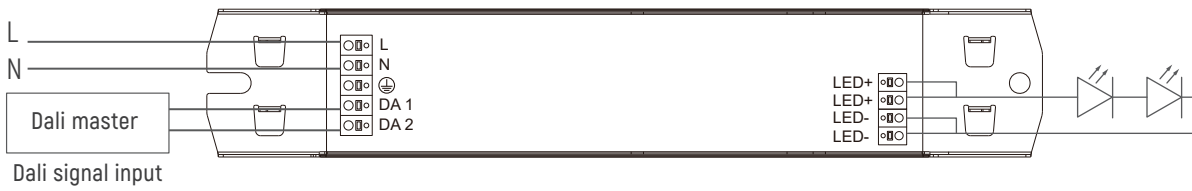
<b>Model</b>	EULP65D-1HMC																																																	
<b>Input</b>	Voltage	220VAC-240VAC																																																
	Frequency Range(Hz)	50/60Hz																																																
	Efficiency	≥86%@230VAC, full load																																																
	PF	≥0.95@230VAC, full load																																																
	Current	0.4Amax@230VAC																																																
	THD	< 10% @ 230VAC, full load																																																
	Inrush current	Cold start , 13.2A@230VAC 14.2us																																																
	Standby power	≤0.5W																																																
	No load power	≤0.5W																																																
	Turn on delay Time	≤ 0.75 s, at230Vac (When the light begins to shine)																																																
<b>Output</b>	Current/Voltage/Power	700mA/9-54V/37.8W      800mA/9-54V/43.2W      900mA/9-54V/48.6W      1000mA/9-54V/54W 1100mA/9-54V/59.4W      1200mA/9-54V/64.8W      1300mA/9-50V/65W      1400mA/9-46V/64.4W																																																
	Channel	1																																																
	Current Accuracy	±5%																																																
	Ripple current	< 3%																																																
	No load output voltage	59VDC max																																																
<table border="1"> <caption>Current Selection Table</caption> <tr> <td>ON</td> <td>OFF</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> </tr> <tr> <td></td> <td></td> <td>700mA</td> <td>800mA</td> <td>900mA</td> <td>1000mA</td> <td>1100mA</td> <td>1200mA</td> <td>1300mA</td> <td>1400mA</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>9-54V</td> <td>9-54V</td> <td>9-54V</td> <td>9-54V</td> <td>9-54V</td> <td>9-54V</td> <td>9-50V</td> <td>9-46V</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>Remark: Function default setting is: 700mA (@switch are all OFF state)</p>			ON	OFF	1	2	3	4	5	6	7	8	9	10	11	12	13	14			700mA	800mA	900mA	1000mA	1100mA	1200mA	1300mA	1400mA									9-54V	9-54V	9-54V	9-54V	9-54V	9-54V	9-50V	9-46V						
ON	OFF	1	2	3	4	5	6	7	8	9	10	11	12	13	14																																			
		700mA	800mA	900mA	1000mA	1100mA	1200mA	1300mA	1400mA																																									
		9-54V	9-54V	9-54V	9-54V	9-54V	9-54V	9-50V	9-46V																																									
<b>Function</b>	Dimming type	DALI (Touch DIM)																																																
	Dimming range	0.1%-100%																																																
	Dimming curve	Logarithm																																																
	Flicker	No stroboscopic																																																
<b>Protection</b>	Over Voltage	The current drops and the output is normal after troubleshooting																																																
	Over load	Reduce the current burping protection, eliminate the fault, and the output is normal																																																
	Short circuit	There is no output in case of short circuit, and the output is normal after troubleshooting																																																
<b>Safety&amp;EMC</b>	Surge	L-N 1000VAC L,N-PE 2000VAC																																																
	Withstand Voltage	Input to output 3750VAC / 1min / < 5mA output to signal 1500vac / 1min / < 5mA																																																
	Safety standards	IEC/EN62384, IEC/EN61347-1, IEC/EN61347-2-13, GB19510.1, GB19510.14																																																
	EMC Immunity	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 Resistance	5M Ω																																																
<b>Others</b>	Dimension	280*30*21mm (L*W*H)																																																
	Packing size	Net weight: 258g ± 5% / PCS; 50PCS/Cartron; 13.4kg ± 5% / box; Outer box size: 498 * 334 * 130mm(L*W*H)																																																
	Working temp.	ta:-20 C ~50°C																																																
	tc	70°C																																																
	Storage Temp., Humidity	-40°C~85°C, 20-90%RH																																																
	Lifetime	50000 hours @tc: 70°C																																																
	Warranty	5 years																																																
	IP rating	IP20																																																
	Material	Metal																																																
	Switch cycle	> 25000 times																																																

※ When the output voltage is 9V, the corresponding current accuracy is -7%.

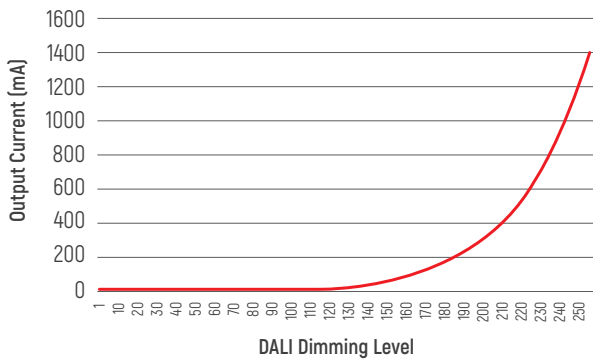
## Size(mm)



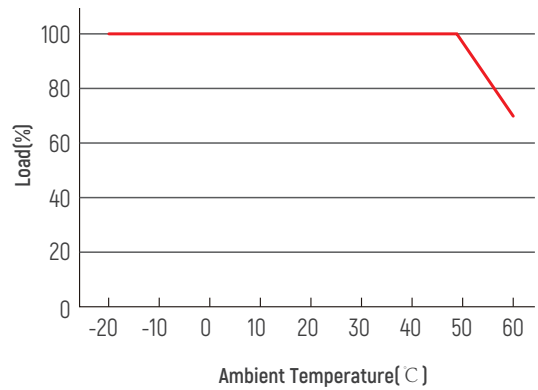
## Wiring diagram



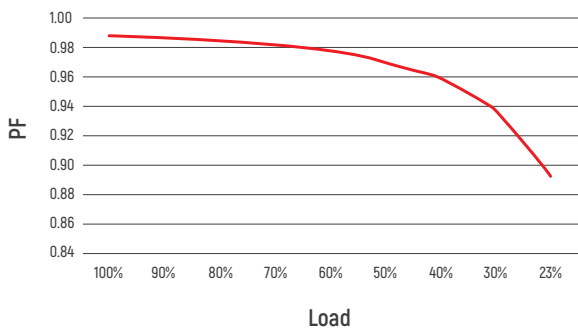
## Dimming curve



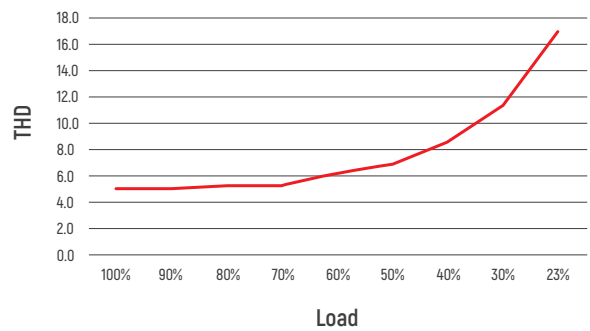
## Derating Curve



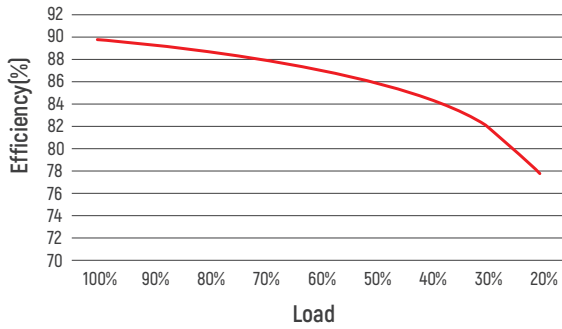
## PF vs Load



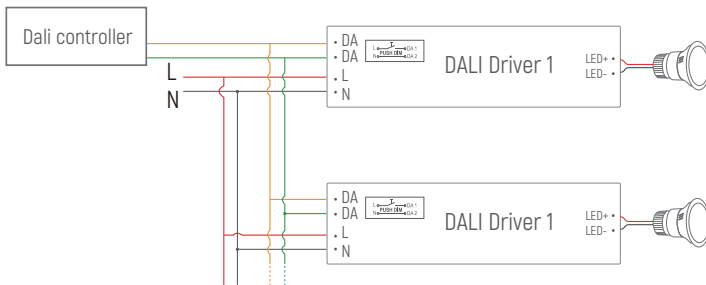
## THD



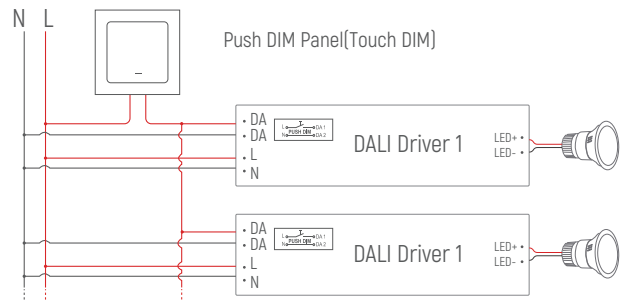
## Eff. Vs load



## Dali application diagram



## Push DIM Panel(Touch DIM)



Note: only open circuit push switch (without indicator light) can be used. When synchronous connection is adopted, the line length between each equipment and equipment shall not exceed 20 meters.

## Push dim function

1. Press and hold the push dim (touch dim) switch for 8s to enter the push dim (touch dim) mode.
2. Briefly press the push dim (touch dim) switch (< 0.5 seconds) to control the lighting and dimming of the lamp.
3. Long press the push dim (touch dim) switch (> 0.5 seconds) to adjust the brightness of the lamp. Whether the light is turned on or off will change with the change of the switch pressed each time.
4. Double click the push dim (touch dim) switch (< 0.3 seconds), and all connected lamps will reach the brightest state.
5. The brightness adjustment range is 1% - 100%.
6. It has power-off memory function, and power on again will restore it to the last power-off state.

## matters needing attention

1. This product should be debugged and installed by qualified personnel.
2. This product cannot be waterproof and should be protected from the sun and rain. If it is installed outdoors, please use a waterproof box.
3. Good heat dissipation conditions will prolong the service life of the product. Please install the product in a well ventilated environment.
4. Please check whether the output voltage and current of the LED power supply meet the product requirements.
5. For safety reasons, it is recommended to use 0.75-1.5mm for input and output (except signal terminal) <sup>2</sup> PVC or rubber cables, and ensure that the wiring is firm to avoid accidents caused by overheating or poor contact of wires. Flat power cord is not applicable.
6. Before power on commissioning, ensure that all wiring is correct to avoid damage to lamps due to wrong wiring.
7. In case of failure, do not repair without permission; If in doubt, please contact the supplier.

※ the contents of this manual are subject to update without notice. If the function of the product you use is inconsistent with the manual, please take the product as the standard. If you have any questions, please contact us.

## EULP65D-1HMC

### 概述

EULP65D-1HMC是一款交流变直流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
- 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,比如筒灯，面板灯，三防灯等



### 应用

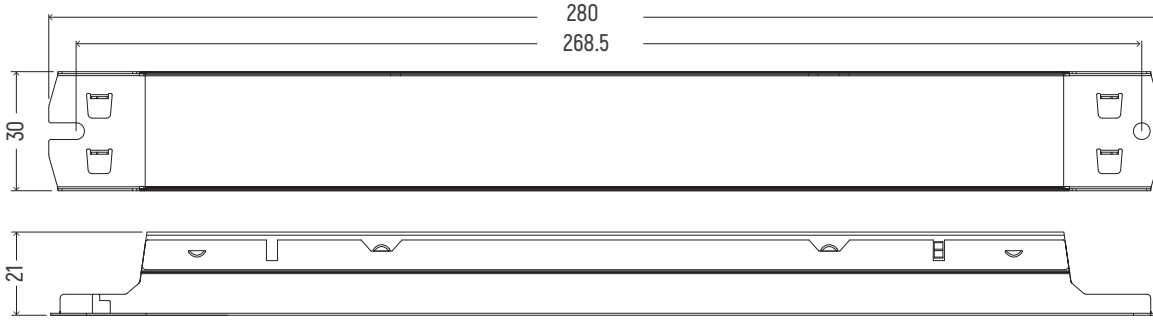


### 技术参数

型号	EULP65D-1HMC	
输入	电压	220VAC-240VAC
	频率	50/60Hz
	效率	≥86%@230VAC, 满载
	功率因素	≥0.95@230VAC, 满载
	电流	0.4Amax@230VAC
	THD	<10%@230VAC, 满载
	浪涌电流	Cold start, 13.2A@230VAC 14.2us
	待机功耗	≤0.5W
	空载功耗	≤0.5W
	启动延时	≤ 0.75 s, at 230Vac (When the light begins to shine)
输出	电流/电压/功率	700mA/9-54V/37.8W      800mA/9-54V/43.2W      900mA/9-54V/48.6W      1000mA/9-54V/54W 1100mA/9-54V/59.4W      1200mA/9-54V/64.8W      1300mA/9-50V/65W      1400mA/9-46V/64.4W
	通道	1
	电流精度	±5%
	纹波电流	< 3%
	空载电压	59VDC max
		电流选择表 备注：出厂默认设置电流为700mA(1,2,3在OFF状态)
功能	调光方式	DALI (Touch DIM)
	调光范围	0.1%-100%
	调光曲线	对数
	频闪	无频闪
保护	过电压	电流下降，排除故障输出正常
	过负载	降低电流打嗝保护，排除故障输出正常
	短路	短路无输出，排除故障输出正常
安全 & 电磁兼容	雷击浪涌	L-N 1000VAC L,N-PE 2000VAC
	耐压	输入对输出3750Vac/1min/<5mA输出对信号1500Vac/1min/<5mA
	安全标准	IEC/EN62384, 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	尺寸	280*30*21mm (长*宽*高)
	包装信息	净重: 258g±5%/PCS; 50PCS/ Carton; 13.4kg±5%/箱; 外箱尺寸: 498*334*130mm(长*宽*高)
	工作温度	ta: -20°C~50°C
	tc	70°C
	储存温度、湿度	-40°C~85°C, 20-90%RH
	寿命	50,000小时@tc:70°C
	质保	5年
	防水等级	IP20
	材质	金属
开关周期	>25,000次	

※ 输出电压9V时，对应的电流精度为-7%。

## 尺寸(mm)

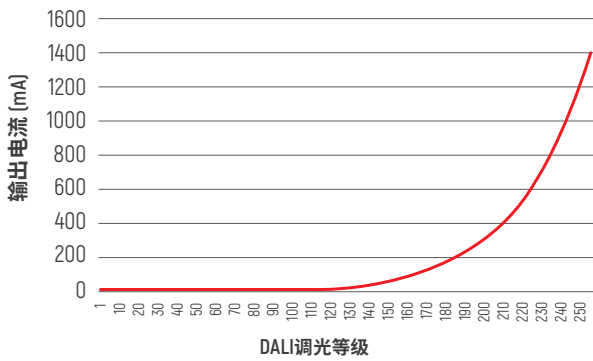


## 接线图

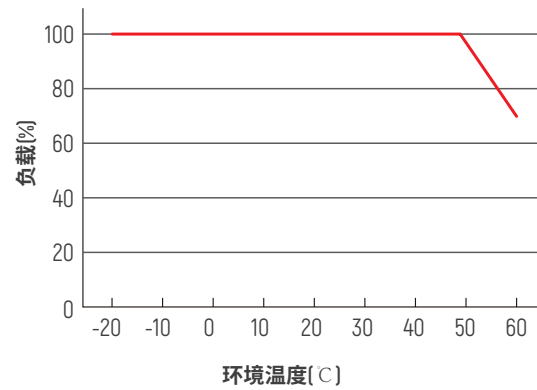


DALI 信号输入

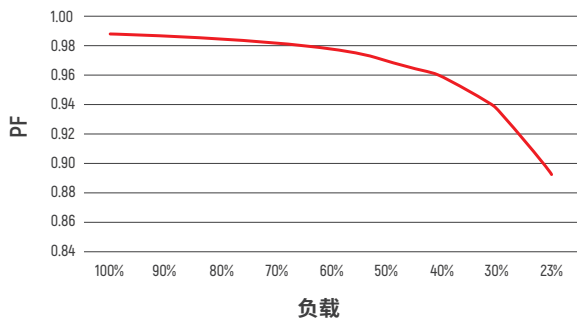
## 调光曲线



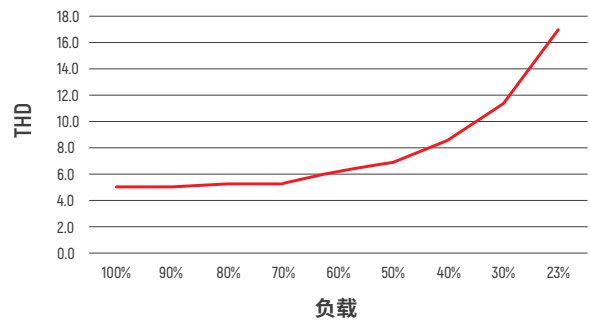
## 降额曲线



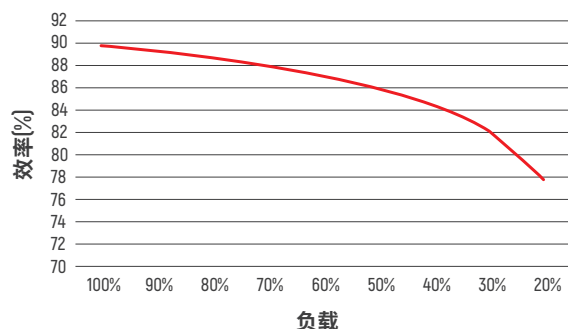
## PF vs 负载



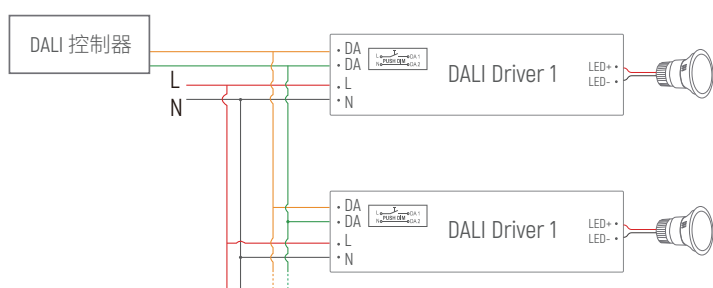
## THD



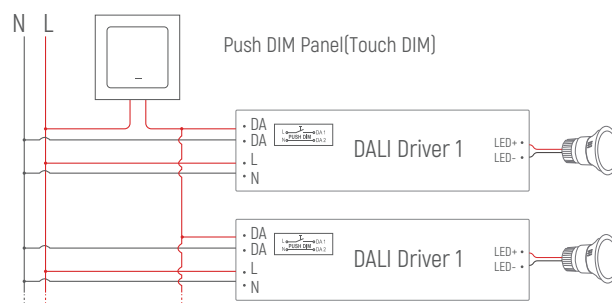
## 效率 Vs 负载



## DALI应用图



## Push DIM Panel(Touch DIM)



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0.75-1.5mm<sup>2</sup> 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。