

EULP20D-1WMC-0 (Product No.:102100123101)

Summary

EULP20D-1WMC-0 is a 20W AC/DC constant current mode output LED driver featuring the multiple levels selectable by DIP switch and complies with DALI standard protocol IEC 62386. EULP20D-1WMC-0 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.
- Meet DALI protocol IEC 62386
- Support Touch DIM function
- Wide input voltage of 100VAC ~ 240VAC
- High efficiency up to 83%
- Built-in active PFC function
- Dimming effect smooth, no flicker
- Protections: Over load, short circuit
- Suitable for indoor LED lighting application, such as down light, panel light, tri-proof light, and so on



Application



Downlight



Panel Light



Spotlight



Ceiling Light



Decorative Light



Floor Light

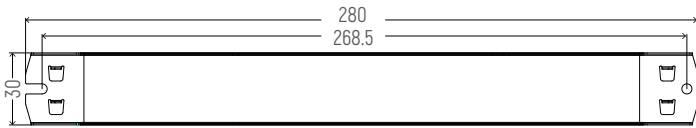


Flood Light

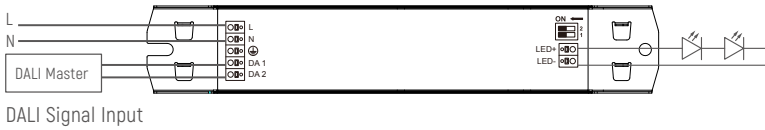
Technical Paramaters

Model	EULP20D-1WMC-0				
Input	Efficiency	>83%@230VAC,Full load			
	Voltage	100VAC-240VAC			
	Frequency Range(Hz)	50/60Hz			
	Power Factor	≥0.95@230VAC,Full load			
	THD(full load)	<10%@230VAC, Full load			
	AC Current(max)	0.12Amax@230VAC			
	Standby power	<0.5W			
	Inrush Current(max)	Cold start,35A(twidth=20us measured at 50% Ipeak)@230VAC			
Output	Current(mA)/Voltage (VDC) Power(W)	350mA/9-45VDC/15.75W 500mA/9-40VDC/20W 700mA/9-29VDC/20.3W		Current Selection Table ON OFF 1 2 350mA 500mA 700mA 9-45V 9-40V 9-29V Remark: Function default setting is: 350mA (@switch are all OFF state)	
	Ripple Current	<3%			
	Channel	1			
	Current Tolerance	±5%			
	No load output voltage	55Vdc			
	Function	Dimming Type	DALI/Touch DIM		
Dimming Range		0.1%-100% Dimming to off			
Protection	Short circuit	Close output , recovers automatically after fault removed			
	Over Load	When the output voltage is exceeded, the output current decreases and, recovers automatically when the load is reduced.			
Safety& EMC	Surge	L-N:500V			
	Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA			
	DALI Standard	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC 62386-207: 2009, DALI 1.0			
	Safety Standards	EN61347, GB19510			
	EMC Eission	EN50515, EN61000-3-2			
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547			
Others	Working Temp.	-20°C~50°C			
	Storage Temp., Humidity	-40°C~85°C, 20-90%RH			
	tc	70°C			
	Material	Metal			
	IP Rating	IP20			
	Lifetime	30,000h@tc:65°C			
	Warranty Condition	3 years			
	Switch Cycle	>15,000 times			
	Packing(weight)	Net weight: 230g±5%/PCS; 50PCS/Cartron; 12kg±5%/Carton; Carton Size:502*338*149mm(L*W*H)			
	Dimension	280*30*21mm (L*W*H)			

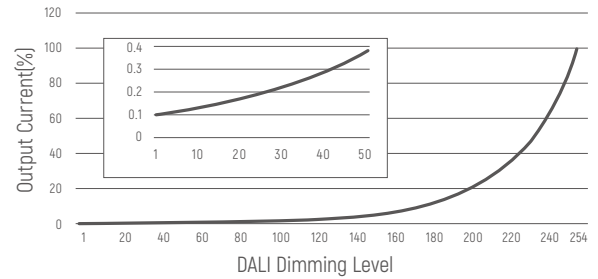
Dimension(mm)



DALI Wiring

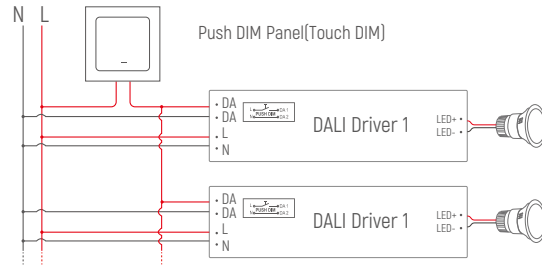
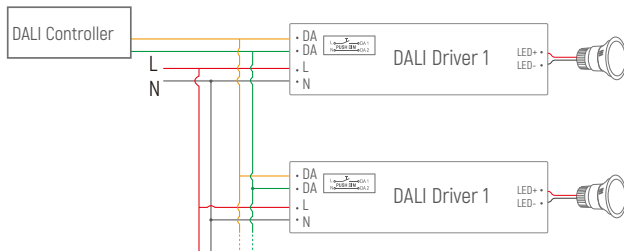


Dimming Curve



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.

EULP20D-1WMC-0 (产品代码:102100123101)

概述

EULP20D-1WMC-0一款20W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
- 遵循DALI协议标准 IEC62386
- 支持Touch DIM功能
- 宽电压输入：100VAC-240VAC
- 内建主动式PFC功能
- 过载保护，短路保护，
- 适用于LED室内灯具,比如筒灯，面板灯，三防灯等



应用



筒灯



面板灯



射灯



吸顶灯



装饰灯



落地灯



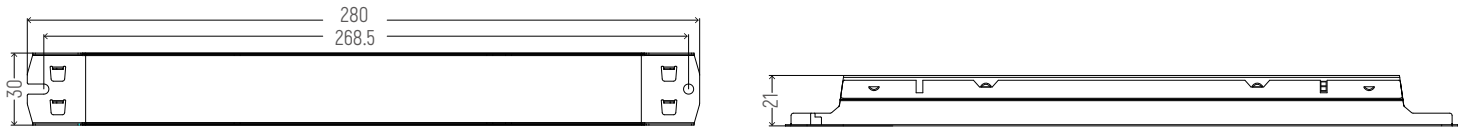
投光灯



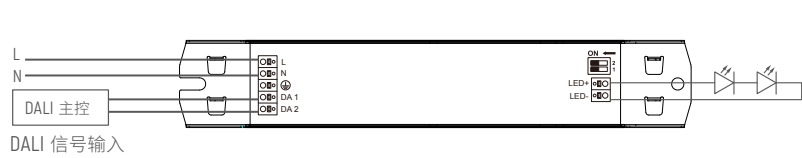
技术参数

型号	EULP20D-1WMC-0																						
输入	效率	>83%@230VAC, 满载																					
	电压	100VAC-240VAC																					
	频率	50/60Hz																					
	功率因素	≥0.95@230VAC, 满载																					
	THD	<10%@230VAC, 满载																					
	电流	0.12Amax@230VAC																					
	待机功耗	<0.5W																					
	浪涌电流	冷启动,35A[在 50%Ipeak下测twidth=20us]@230VACC																					
输出	电流/电压/功率	350mA/9-45VDC/15.75W 500mA/9-40VDC/20W 700mA/9-29VDC/20.3W		电流选择表 <table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>ON</td><td>OFF</td><td>350mA</td><td>500mA</td><td>700mA</td><td></td></tr><tr><td></td><td></td><td>9-45V</td><td>9-40V</td><td>9-29V</td><td></td></tr></table> 备注：出厂默认设置电流为350mA(12在OFF状态)								ON	OFF	350mA	500mA	700mA				9-45V	9-40V	9-29V	
	ON	OFF	350mA			500mA	700mA																
			9-45V			9-40V	9-29V																
	波纹电流	<3%																					
	通道	1																					
电流公差	±5%																						
空载输出电压	50V Max																						
功能	调光方式	DALI/Touch DIM																					
	调光范围	0.1%-100% 变暗直至关闭																					
保护	过载	超过输出电压范围时，输出电流下降，减轻负载后自动恢复。																					
	短路	关断输出，移除故障后自恢复																					
安全 & 电磁兼容	浪涌	L-N:500V																					
	耐压标准	I/P-O/P: 3000VAC/1min/5mA																					
	DALI 标准	IEC 62386-101: 2014, IEC 62386-102: 2014; IEC 62386-2070: 2009, DALI 1.0																					
	安全标准	EN61347, GB19510																					
	电磁兼容	EN50515, EN61000-3-2																					
其它	EMC抗扰度	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547																					
	工作温度	-20°C~50°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	30,000小时@tc:70°C																					
	质保	3年																					
	开关周期	>15,000次																					
	包装尺寸(重量)	净重: 230g±5%/PCS; 50PCS/Cartron; 12kg±5%/箱; 外箱尺寸:502*338*149cm[长*宽*高]																					
尺寸	280*30*21mm (长*宽*高)																						

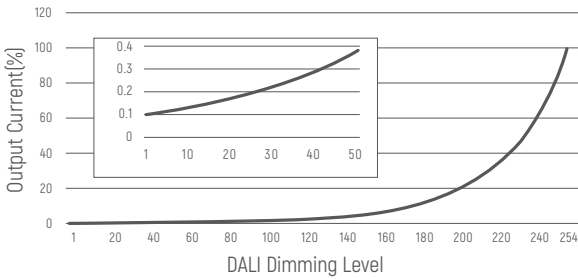
尺寸(mm)



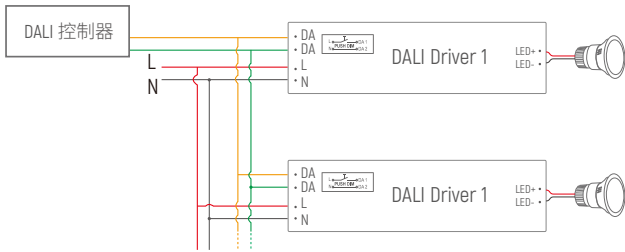
接线图



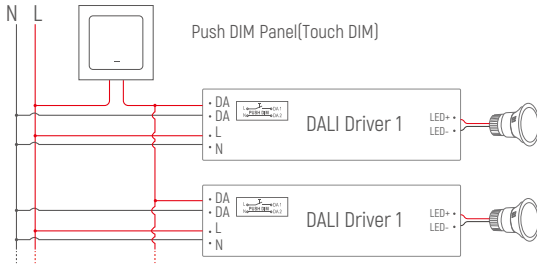
调光曲线



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。