

EULP80D-1WMC

Summary

EULP80D-1WMC is an 80W AC to DC LED driver that can output multiple current levels. The output current can be selected by switching. Non-isolated products, connected to DALI master or Touch DIM for smooth dimming effect.

Product Features

- Single channel constant current output, multi-level current optional
- Wide voltage input: 100VAC~277VAC
- Efficiency up to 93%
- Conforms to DALI-2 protocol standards
- Protection: short circuit, overvoltage
- Suitable for LED indoor lamps



Application



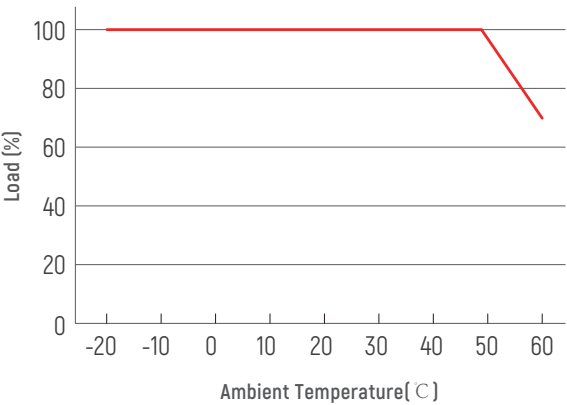
Down light



Technical Paramaters

Model	EULP80D-1WMC				
Input	Efficiency	≥90%@120VAC, ≥93%@277VAC, Full load			
	Voltage	100VAC-277VAC			
	Frequency Range(Hz)	50/60Hz			
	Power Factor	>0.98@120VAC , 0.9@277VAC Full load			
	THD	10%@120VAC , 15%@277VAC Full load			
	AC Current	0.9Amax@120VAC , 0.4Amax@277VAC			
	Standby power	<0.5W			
	Inrush Current(max)	Cold start , 17A@120VAC 250us 20A@277VAC 500us			
Output	Current/Voltage/Power	150mA/100-200VDC/30W 200mA/100-200VDC/40W	250mA/100-200VDC/50W 280mA/100-200VDC/54W	300mA/100-200VDC/60W 350mA/100-200VDC/70W	365mA/100-200VDC/73W 400mA/100-200VDC/80W
	Channel	1			
	Current Tolerance	±5% (150mA ±7%, 200mA ±7%)			
	No load output voltage	280V			
	Turn on delay Time	≤1 s, @120VAC @277VAC (When the light begins to shine)			
Function	Dimming Type	DALI, Touch DIM			
	Dimming Range	0.5%-100%			
	Dimming curve	Logarithm			
Protection	Short circuit	No output and self-recovery after removal			
	Over Voltage	If no output is generated, power off and restart the device to rectify the fault			
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	EN55015, FCC part 15 Class B			
	Insulation Resisance	5MΩ			
Others	Working Temp.	-20℃~+55℃ [-4°F~131°F]			
	Storage Temp., Humidity	-40℃~+85℃ [-40°F~185°F] , 5-95%RH			
	tc	80℃ [176°F]			
	Material	Metal			
	IP Rating	IP20			
	Lifetime	50,000h@tc:80℃ [176°F]			
	Warranty Condition	5 year			
	Switch Cycle	>25,000 times			
	Packing(weight)	N.W: 220g(0.48 lb)±5%/PCS; 50PCS/Carton; 14.2kg(31.3 lb)±5%/Carton; Carton Size: 498*334*160mm(19.6*13.1*6.29 Inch)[(L*W*H)]			
	Dimension	280*30*21mm (11.02*1.18*0.82 Inch) (L*W*H)			

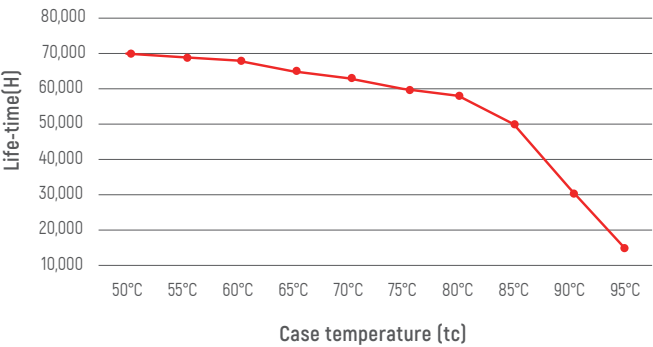
Derating Curve



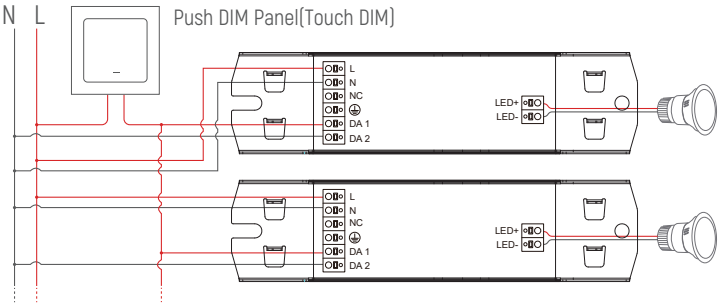
Life-time vs. case temperature

The life-time of the led driver is shown in the figure above (calculated based on the 90% survival rate).

The relation of tc ta temperature depends also on the luminaire design.



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

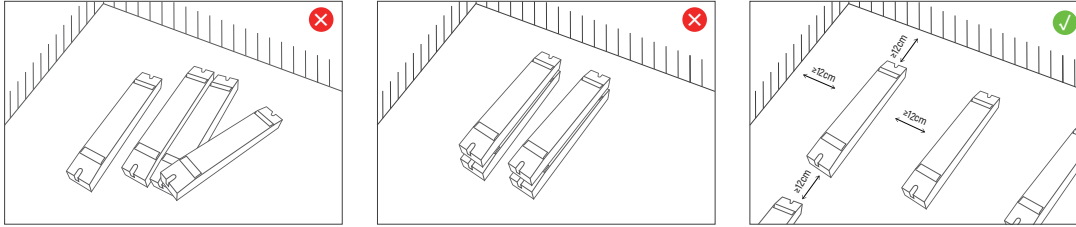
1. Press the Push DIM (Touch DIM) switch for 8s or more,the driver can be controlled via Push DIM switch.
2. Short press the Push DIM (Touch DIM) switch (<0.5s) to control the lamp on or off.
3. Long press the Push DIM (Touch DIM) switch (>0.5s) to dim the brightness of light. The dimming direction will 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.

Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Value	Condition
Inrush current Ipeak	17A (120V)	20A (277V)	Input Voltage120V/277V
Inrush current Twidth	250us (120V)	500us (277V)	Input Voltage120V/277V, measured ta 50% Ipeak

MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	11pcs	7pcs	C10	11pcs	12pcs
B13	14pcs	9pcs	C13	14pcs	16pcs
B16	17pcs	12pcs	C16	17pcs	20pcs
B20	22pcs	15pcs	C20	22pcs	25pcs
			D16	17pcs	40pcs

Installation Precautions



Please do not stack the products. The distance between two products should be $\geq 12\text{cm}$ so as not to affect heat dissipation and the lifespan of the products.

Warranty Agreement

1. Warranty periods from the date of delivery : 5 years.
2. Free repair or replacement services for quality problems are provided within warranty periods.

Non-warranty regulations:

The following circumstances are not covered by the free warranty or replacement service:

- 1, has exceeded the warranty service period;
- 2, high voltage, overload, improper operation and other man-made damage;
- 3, the product shape is seriously damaged or deformed;
4. Damage caused by natural disasters and force majeure;
- 5, product warranty label and product unique bar code damage;
6. No contract or invoice voucher signed by Oche.

- Repair or replacement is the only remedy Oches has for the customer. Oches shall not be liable for any consequential damages, except to the extent of applicable law.
- Oches reserves the right to amend or adjust this warranty, which shall be published in writing.

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 $0.75\sim 2.5\text{mm}^2$ 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.

EULP80D-1WMC

概述

EULP80D-1WMC是一款80W交流变直流LED驱动器，可输出多档电流。
输出电流可以通过开关选择。非隔离产品，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
- 宽电压输入：100VAC~277VAC
- 效率高达93%
- 符合DALI-2协议标准
- 保护：短路、过压
- 适用于LED室内灯具

应用



筒灯



无频闪



DALI



短路保护

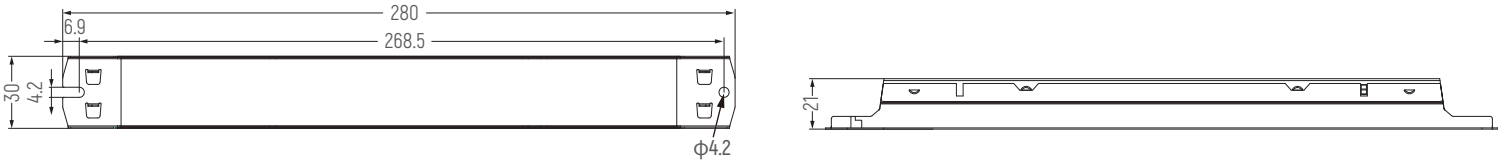


过压保护

技术参数

型号	EULP80D-1WMC				
输入	效率	≥90%@120VAC，≥93%@277VAC, 满载			
	电压	100VAC-277VAC			
	频率	50/60Hz			
	功率因素	>0.98@120VAC，0.9@277VAC 满载			
	THD	10%@120VAC，15%@277VAC 满载			
	电流	0.9Amax@120VAC，0.4Amax@277VAC			
	待机功耗	<0.5W			
	浪涌电流	冷启动, 17A@120VAC 250us 20A@277VAC 500us			
输出	电流/电压/功率	150mA/100-200VDC/30W 200mA/100-200VDC/40W	250mA/100-200VDC/50W 280mA/100-200VDC/54W	300mA/100-200VDC/60W 350mA/100-200VDC/70W	365mA/100-200VDC/73W 400mA/100-200VDC/80W
	通道	1			
	电流公差	±5% (150mA ±7%, 200mA ±7%)			
	空载输出电压	280V			
	启动延时	≤1 s, @120VAC @277VAC (当灯光开始亮起)			
功能	调光方式	DALI, Touch DIM			
	调光范围	0.5%-100%			
	调光曲线	对数			
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	IEC/EN61347-1, IEC/EN61347-2-13, GB19510.1, GB19510.14			
	电磁兼容	EN55015, FCC part 15 Class B			
	绝缘阻抗	5MΩ			
其它	工作温度	-20°C~+55°C [-4°F~131°F]			
	储存温度、湿度	-40°C~+85°C [-40°F~185°F] , 5-95%RH			
	tc	80°C [176°F]			
	材质	金属			
	防水等级	IP20			
	寿命	50,000小时@tc:80°C [176°F]			
	质保	5年			
	开关周期	>25,000次			
	包装尺寸(重量)	净重: 220g(0.48 lb)±5%/PCS; 50PCS/Carton; 14.2kg(31.3 lb)±5%/箱; 外箱尺寸:498*334*160mm(19.6*13.1*6.29 Inch)(长*宽*高)			
	尺寸	280*30*21mm [11.02*1.18*0.82 Inch](长*宽*高)			

尺寸(mm)



接线图



DALI信号输入

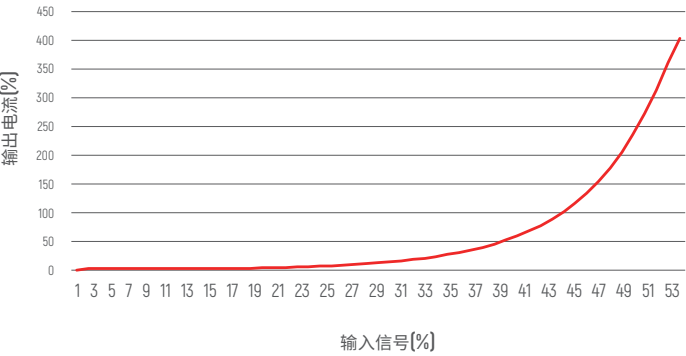
电流选择表

EULP80D-1WMC是一个多电流调光驱动器，输出电流可通过DIP S.W.选择，如下所示：

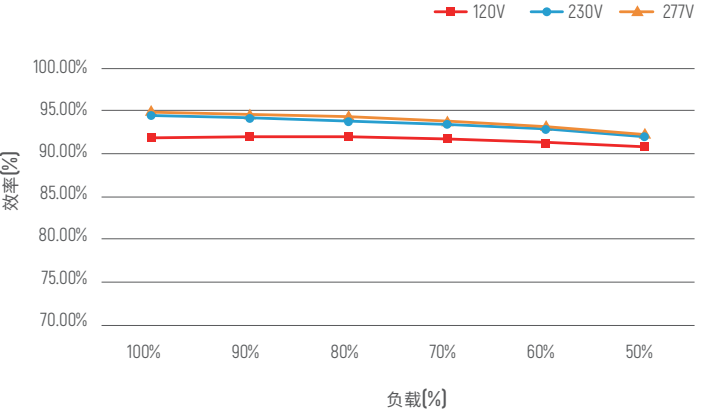
ON	OFF	1	2	3															
		150mA	200mA	250mA	280mA	300mA	350mA	365mA	400mA										
		100-200V	100-200V	100-200V	100-200V	100-200V	100-200V	100-200V	100-200V										

备注：出厂默认设置电流为150mA(1,2,3在OFF状态)

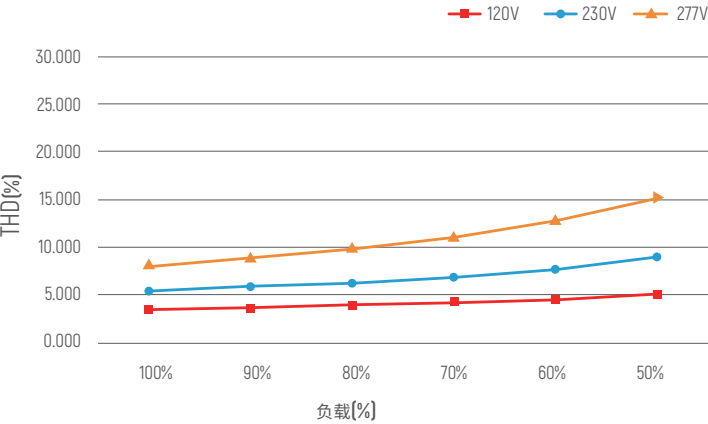
调光曲线



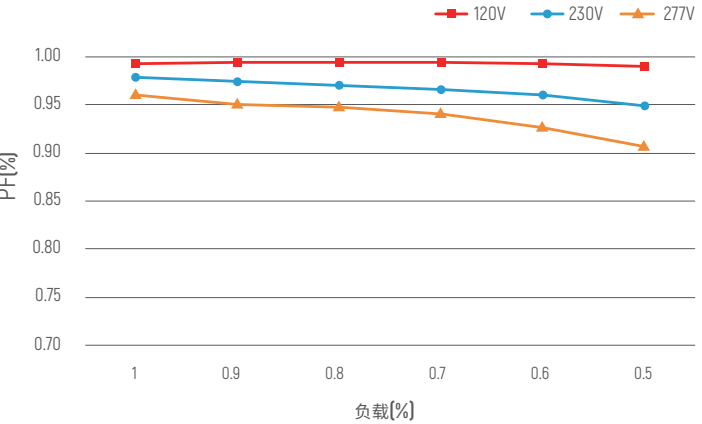
Efficiency vs 负载曲线



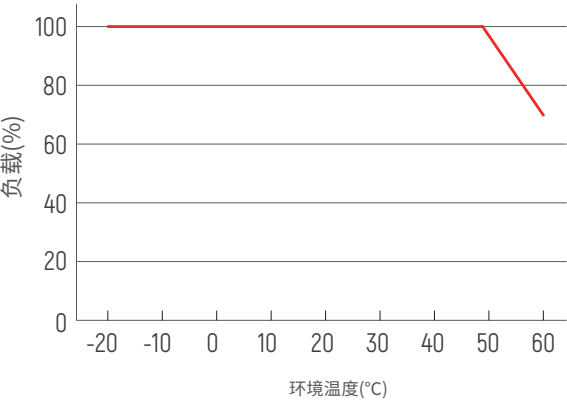
THD vs 负载曲线



PF vs 负载曲线

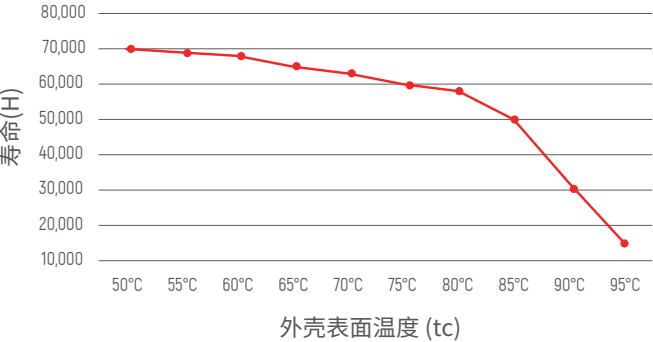


降额曲线

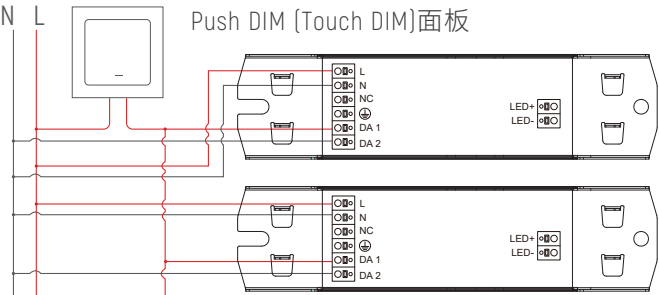


寿命 vs tc温度

LED驱动器的使用寿命如上图所示（根据90%的带载率计算）
tc-ta温度的关系也取决于灯具的设计



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

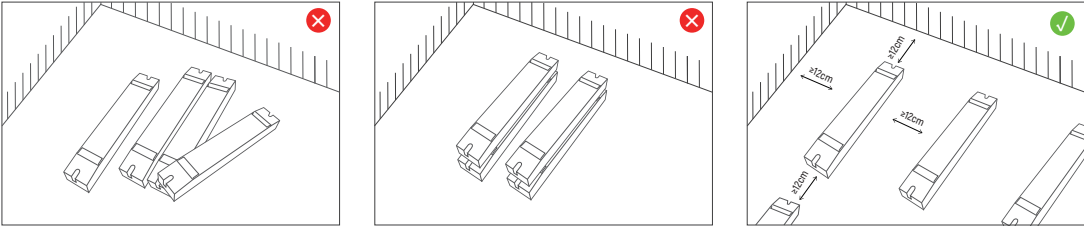
- 1. 长按Push DIM(Touch DIM)开关8s，进入Push DIM (Touch DIM)模式。
- 2. 短按Push DIM (Touch DIM)开关 (<0.5秒) 进行灯的亮暗控制。
- 3. 长按Push DIM (Touch DIM)开关 (>0.5秒) 进行灯具的亮度调节，光是调亮还是调暗，随着每次按压的开关变化而变换。
- 4. 双击Push DIM (Touch DIM)开关 (<0.3秒)，连接的所有灯具将达到最亮状态。
- 5. 亮度调节范围为1%-100%。
- 6. 具有断电记忆功能，重新上电将恢复到上一次断电的状态。

断路器带载说明

规范项	值	值	备注
浪涌电流 I _{peak}	17A [120V]	20A [277V]	输入电压120V/277V
浪涌电流 T _{width}	250us [120V]	500us [277V]	输入电压120V/277V, 在50%I _{peak} 下测试

MCB	输入电压120V 驱动器数量	输入电压277V 驱动器数量	MCB	输入电压120V 驱动器数量	输入电压277V 驱动器数量
B10	11pcs	7pcs	C10	11pcs	12pcs
B13	14pcs	9pcs	C13	14pcs	16pcs
B16	17pcs	12pcs	C16	17pcs	20pcs
B20	22pcs	15pcs	C20	22pcs	25pcs
			D16	17pcs	40pcs

安装规范要求



请勿将产品堆叠摆放，产品与产品间隔距离应 $\geq 12\text{cm}$ ，避免影响产品散热和使用寿命。

保修条例：

- 1、自出厂之日起保修服务期为5年。
- 2、在保修服务期内出现产品质量问题欧切斯将给予免费修理或更换服务。

非保修条例：

属下列情况不在免费保修或更换服务范围之内：

- 1、已经超出保修服务期；
- 2、过高电压、超负载、操作不当等人为造成的损坏；
- 3、产品外形严重损坏或变形；
- 4、自然灾害以及人力不可抗拒原因造成的损坏；
- 5、产品保修标签和产品唯一条形码损坏；
- 6、无欧切斯签订的合同或发票凭证。

- 修理或更换是欧切斯对客户唯一补救措施。欧切斯不承担任何附带引起的损害赔偿，除非在适用法律范围之内。
- 欧切斯享有修正或调整本保修条款的权利，并以书面形式发布为准。

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0.75-1.5mm²PVC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；如有疑问，请联系供应商。