

LCP240D-2H24V

Product Features

- Dual channel constant voltage output. Single channel output current 10A, with the total load across multiple channels not exceeding 10A.
- Following the DALI protocol standard IEC62386, DALI2.0
- Short circuit, overload, overcurrent, open protect, V0 level flame-retardant shell
- Dimming range 1%-100% dimming, smooth dimming, flicker free
- Color temperature range 2700K-6500K
- Built in PFC chip to improve energy efficiency and reduce pollution to the power grid
- Customizable dimming curve
- Long strip design for easy installation in narrow spaces
- Lifespan of 50000 hours, 5-year warranty
- Dimming: DALI2.0, Push DIM
- Protection level IP20, suitable for indoor Class I II III lighting fixtures

Application

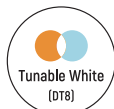
For LED constant voltage strip light only



LED Strip Light



LED Tube

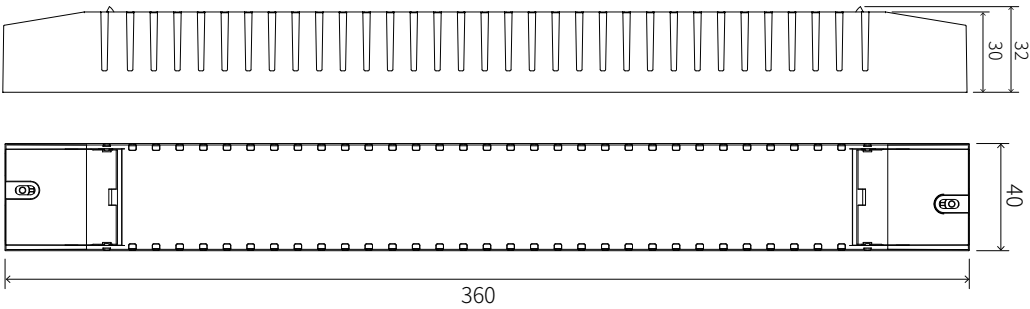


Technical Paramaters

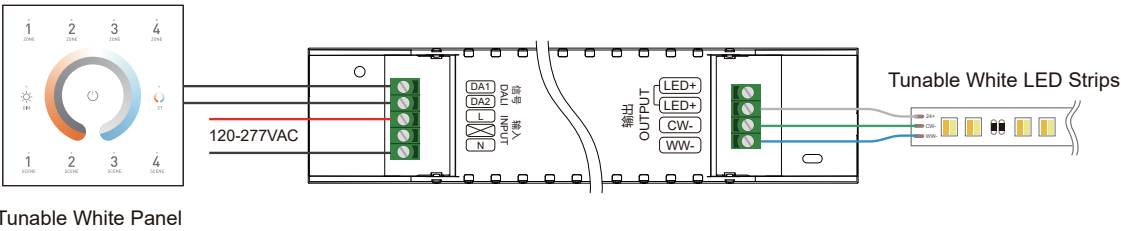
Model	LCP240D-2H24V		
Input	Input Voltage	220VAC-240VAC	
	Frequency Range(Hz)	50/60Hz	
	Input Current	1.25Amax@230VAC	
	Power Factor	≥0.95@230VAC, Full load	
	Efficiency	≥92%@230VAC, Full load	
	THD	≤6%@230VAC, Full load	
	Standby power	<0.5W	
	No-load power	<0.5W	
	Inrush Current	Cold start,57.6A@230V 252us	
Output	Output Voltage	24VDC	
	Voltage Accuracy	±5%	
	Output Current	10A Max.	
	Current Accuracy	±5%	
	Output Power	240W Max.	
	Output Power Range	0W-240W	
	PstLM	≤1	
	SVM	≤0.4	
	Dimming frequency	3.3KHz	
	Line Regulation	±5% @Full load	
	Load Regulation	±5% @Full load	
	Turn on delay Time	<0.75s, at230Vac (When the light begins to shine)	
Function	Dimming Type	DALI2.0, PUSH DIM	
	Dimming Range	1%-100%	
	Dimming Curve	Logarithm	
	Flicker free	Flicker free	
Protection	Short circuit	No output, self recovery after troubleshooting	
	Over Current	Output load >12A protection; No output, self recovery after troubleshooting	
	Over load	Load power ≥ 120% protection; Current drops, troubleshooting output is normal	
	Over Voltage	/	
	Over temperature	/	
Safety& EMC	Surge	L-N:2KV	
	Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA O/P-DALI: 1500VAC/1min/5mA	
	Safety Standards	CCC (China)	GB19510.1, GB19510.14 TUV (Germany) EN61347-1, EN61347-2-13, EN62493
		CB (CBmember states)	IEC61347-1, IEC61347-2-13 CE (European Union) EN61347-1, EN61347-2-13, EN62384
		RCM (Australia)	AS 61347-1, AS 61347-2-13 ENEC (Europe) EN61347-1, EN61347-2-13, EN62384
	EMC Emission	CCC (China)	GB/T17743, GB17625.1
		CE (European Union)	EN55015, EN61000-3-2, EN61000-3-3, EN61547
		RCM (Australia)	EN55015, EN61000-3-2, EN61000-3-3, EN61547
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547	

Environment	Working Temp.	-20°C~50°C
	Storage Temp.	-40°C~90°C
	Storage Humidity	20-90%RH (No condensation)
Others	RoHS	Comply with 2011/65/EU
	tc	90°C
	material	PC
	IP Rating	IP20
	Lifetime	50,000h@tc:90°C
	Warranty Condition	5years
	Switch Cycle	25,000times
	Body size	360*40*32mm (L*W*H)
	Packing[weight]	Net weight: 750g±5%/PCS; 25PCS/Carton;19kg±5%/Carton; Carton Size: 377*241*196mm(L*W*H)
Remark	Noise	DALI DT8：In a quiet environment , No noise outside 30-50cm
	All parameters were measured at an input voltage of 230VAC/50Hz and an ambient temperature of 25 °C without any special instructions.	

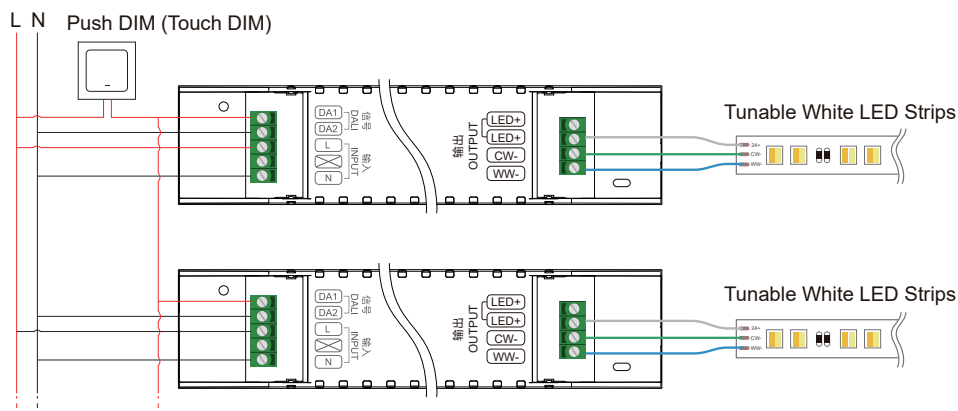
Dimension(mm)



Wiring



Push DIM(Touch DIM) Diagram

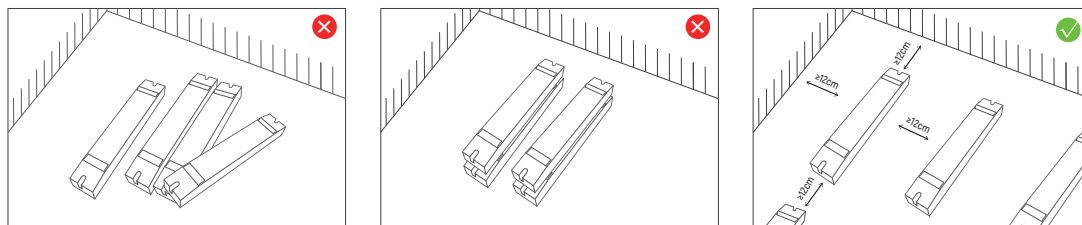


Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

Push DIM Function

1. Press and hold Touch DIM for at least 8 seconds to switch to Touch DIM mode.
2. Short press the Touch DIM switch (<0.5 seconds) to control the brightness of the light.
3. Press and hold the Touch DIM switch (>0.5 seconds) to adjust the brightness of the light fixture. The brightness changes with each press of the switch.
4. Double click the Touch DIM switch (<0.3 seconds), and all connected lights will reach their brightest state.
5. Press the Touch DIM switch three times (<0.3 seconds) to enter the color temperature adjustment mode of the lamp. Long press to adjust the color temperature, and short press to exit the color temperature adjustment mode.
6. When the light fixture is in the off state, long press the Touch DIM switch to turn on the light fixture and adjust the brightness according to the direction of change.
7. The brightness adjustment range is 1% -100%.
8. Equipped with power-off memory function, it will restore to the previous power-off state when powered on again.

Installation Precautions



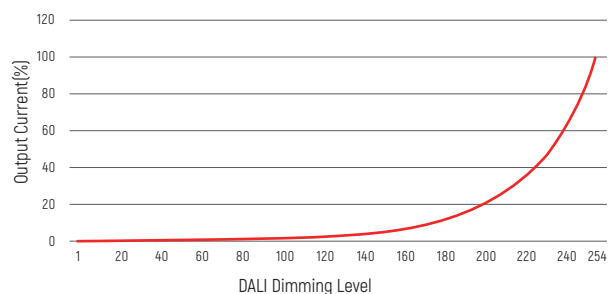
Please do not stack the products. The distance between two products should be >12cm so as not to affect heat dissipation and the lifespan of the products.

Max. quantity of drivers per miniature circuit breaker

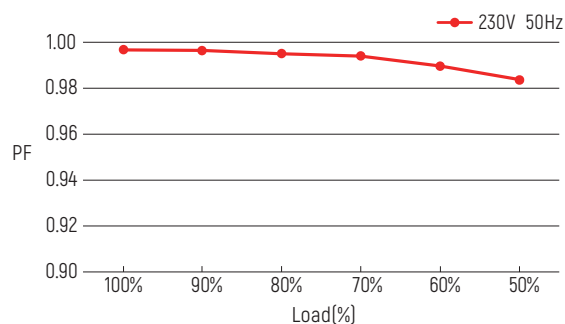
Specification item	Value	Condition
Inrush current I_{peak}	46A	Input Voltage 230VAC
Inrush current T_{width}	460us	Input Voltage 230VAC, measured to 50% I_{peak}

MCB	Input Voltage 230V Drivers	MCB	Input Voltage 230V Drivers
B10	3pcs	C10	6pcs
B13	4pcs	C13	7pcs
B16	5pcs	C16	9pcs
B20	7pcs	C20	12pcs
		D16	19pcs

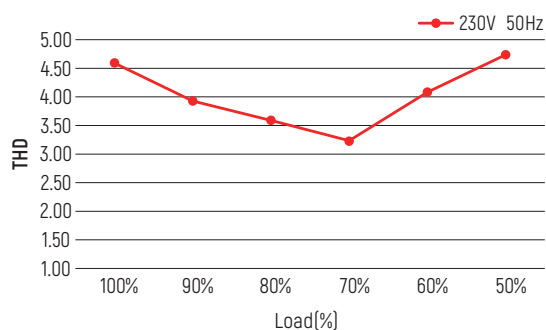
DALI Dimming Curve



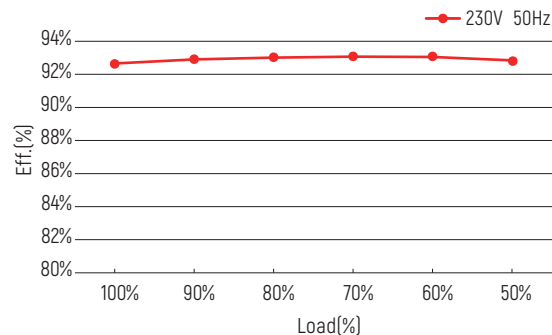
PF vs Load Curve



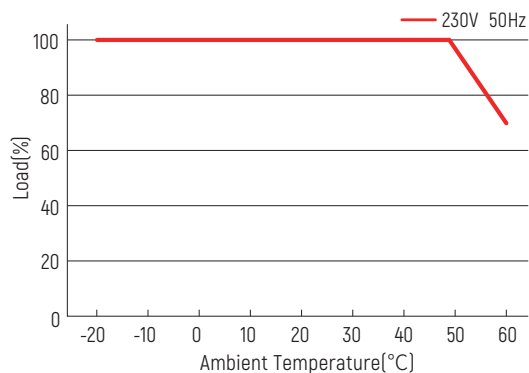
THD vs Load Curve



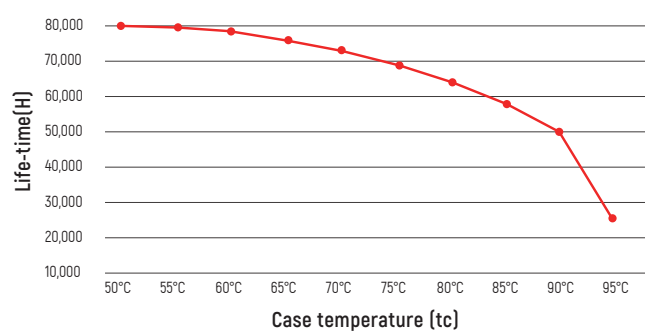
Efficiency vs Load Curve



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 t_c t_a temperature depends also on the luminaire design.

Cautions

This product must be installed and adjusted by a qualified professional.		
1	Confirmation of installation conditions	· Waterproof and Protection: Install in a suitable location according to the waterproof and protection requirements of the power supply. Products without waterproof function should be protected from direct sunlight and rain. When installing outdoors, please use a waterproof box for protection. · Heat dissipation requirements: The drive power supply should avoid exposure to high temperature environments. Please ensure that the working environment temperature is within the recommended range. To ensure proper heat dissipation of the drive power supply, a well ventilated area should be selected for installation. Good heat dissipation conditions can help extend product lifespan.
2	Power check	· Before use, check the product parameters and confirm that the output voltage and current of the LED power supply meet the requirements
3	Safe wiring	· Use cables that meet the specifications to ensure that the cross-section of the wire matches the requirements of the driving power supply. Solid cables typically measuring 0.75-2.5 mm², (Please refer to the silk screen printing or wiring diagram in the instruction manual for specific wire diameter requirements). · If the power supply (metal casing) is installed on a grounded lighting component or equipment, the power supply needs to be grounded.
4	Wiring confirmation	· Before power on debugging, ensure that the wiring is secure and avoid poor contact to prevent unstable current or equipment damage.
5	Repair suggestions	· If the product malfunctions, please do not repair it without authorization. If you have any questions, please contact the supplier or sales team for assistance.

※ 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 .

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.

Warranty exclusions below:

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

1. Exceeding the warranty period.
2. Damage caused by human factors such as high voltage, overload, and improper operation.
3. The appearance of the product is severely damaged or deformed.
4. Wear or aging that occurs during normal use of the product.
5. Damage caused by natural disasters or force majeure factors.
6. The quality inspection label of the product is damaged (QC PASS).
7. No contract or valid invoice proof signed with EUCHIPS has been provided.

※ Remedial measures: Repair or replacement is the only remedy provided by Oches to the customer, and Oches shall not be liable for incidental damages arising from repair or replacement, unless within the scope of applicable law.

※ Adjustment of Warranty Terms: EUCHIPS reserves the right to modify or adjust the warranty terms, which shall be published in writing.

LCP240D-2H24V

产品特点

- 双通道恒压输出。单通道输出10A, 多通道带载时负载累计不超过10A
- 遵循DALI协议标准 IEC62386, DALI2.0
- 保护:短路、过载、过流、开路, V0级阻燃外壳
- 调光范围1%-100%调光, 调光平滑无阶梯感无频闪
- 色温范围2700K-6500K
- 内置PFC芯片, 提高能源利用率, 减少对电网的污染
- 可定制调光曲线
- 长条外形设计, 便于安装狭窄空间内
- 寿命50, 000小时, 5年质保
- 调光: DALI2.0、Push DIM
- 防护等级IP20, 适用于室内 I II III类灯具

应用

仅用于LED恒压灯带



LED灯带



LED硬灯条

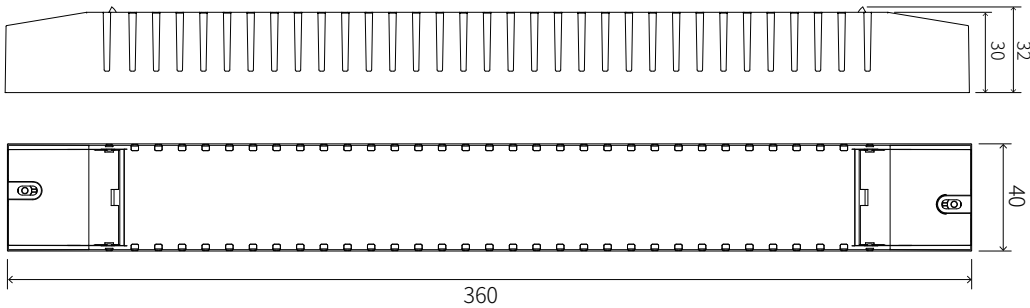


技术参数

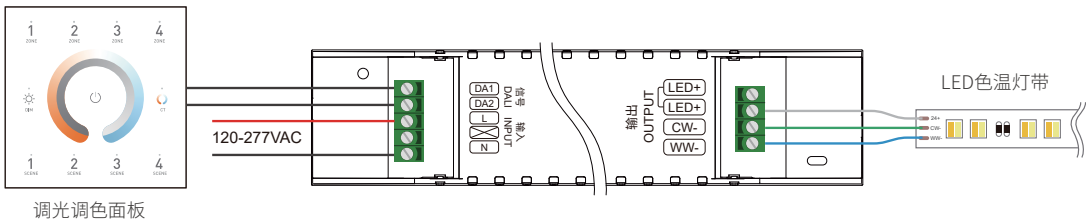
产品型号	LCP240D-2H24V	
输入	输入电压	220VAC-240VAC
	频率范围	50/60Hz
	输入电流	1.25Amax@230VAC
	功率因数	≥0.95@230VAC, 满载
	效率	≥92%@230VAC, 满载
	谐波THD	≤6%@230VAC, 满载
	待机功耗	<0.5W
	空载功耗	<0.5W
	浪涌电流	冷启动, 57.6A@230VAC 252us
输出	输出电压	24VDC
	输出电压精度	±5%
	输出电流	10A Max.
	输出电流精度	±5%
	输出功率	240W Max.
	输出功率范围	0W~240W
	PstLM	≤1
	SVM	≤0.4
	调光频率	3.3KHz
	线性调整率	±5% @满载
	负载调整率	±5% @满载
	启动延时	0.75s, at230Vac(当灯光开始亮起)
功能	调光方式	DALI2.0, Push DIM
	调光范围	1%-100% 变暗直至关闭
	调光曲线	对数
	频闪	无频闪
保护	短路保护	无输出, 排除故障后自恢复
	过流保护	输出带载>12A保护; 无输出, 排除故障后自恢复
	过载保护	负载功率≥120%保护; 电流下降, 排除故障输出正常
	过压保护	/
	过温保护	/
安规与电磁兼容	雷击浪涌	L-N:2KV
	耐压标准	I/P-O/P: 3000VAC/1min/5mA O/P-DAL: 1500VAC/1min/5mA
	安全规范	CCC (中国) GB19510.1, GB19510.14 TUV (德国) EN61347-1, EN61347-2-13, EN62493
		CB (CB成员国) IEC61347-1, IEC61347-2-13 CE (欧盟) EN61347-1, EN61347-2-13, EN62384
		RCM (澳洲) AS 61347-1, AS 61347-2-13 ENEC (欧洲) EN61347-1, EN61347-2-13, EN62384
	电磁兼容	CCC (中国) GB/T17743, GB17625.1
		CE (欧盟) EN55015, EN61000-3-2, EN61000-3-3, EN61547
		RCM (澳洲) EN55015, EN61000-3-2, EN61000-3-3, EN61547
	EMC抗扰度	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547

环境	工作温度	-20℃~50℃
	储存温度	-40℃~90℃
	储存湿度	20-90%RH (无凝露)
其他	RoHS	遵守 2011/65/EU
	tc	90℃
	材质	PC
	防水等级	IP20
	寿命	50,000小时@tc:90℃
	质保	5年
	开关周期	25,000次
	裸机尺寸	360*40*32mm (长*宽*高)
	包装尺寸(重量)	净重: 750g±5%/PCS; 25PCS/Cartron; 19kg±5%/箱; 外箱尺寸: 377*241*196mm(长*宽*高)
	噪音	安静环境下, 30-50cm以外无噪音
备注	全部参数无特别说明, 均在输入电压230VAC/50Hz和25℃的环境温度下测得。	

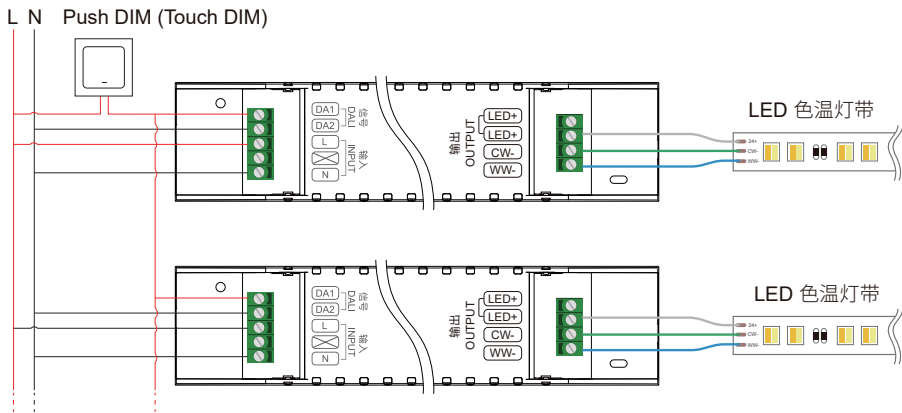
尺寸图(mm)



接线图



Push DIM (Touch DIM)应用图

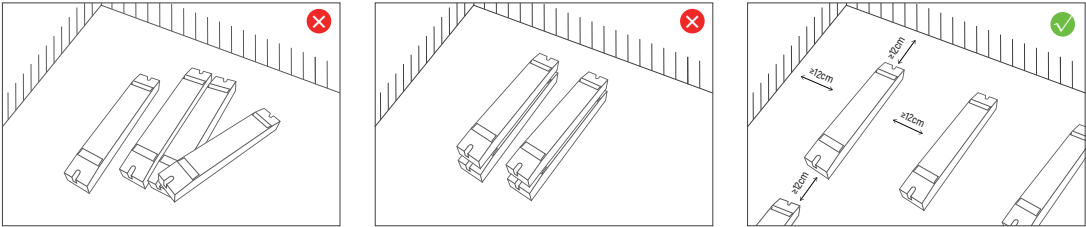


备注: 只能使用开路的按压式开关(不带指示灯). 采用同步连线时每个设备和设备之间的线长不超过20米.

Push DIM(Touch DIM) 功能

- 1. 长按Touch DIM 8s以上, 切换为Touch DIM模式。
- 2. 短按Touch DIM 开关 (<0.5秒) 进行灯的亮暗控制。
- 3. 长按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Touch DIM 开关 (<0.3秒), 连接的所有灯具将达到最亮状态。
- 5. 三击Touch DIM 开关 (<0.3秒), 灯具进入色温调节模式, 长按调节色温, 短按退出色温调节模式。
- 6. 当灯具处于关闭状态, 长按Touch DIM开关可以开启灯具并按照变化方向进行亮度的调节。
- 7. 亮度调节范围为1%-100%。
- 8. 具有断电记忆功能, 重新上电将恢复到上一次断电的状态。

安装规范要求



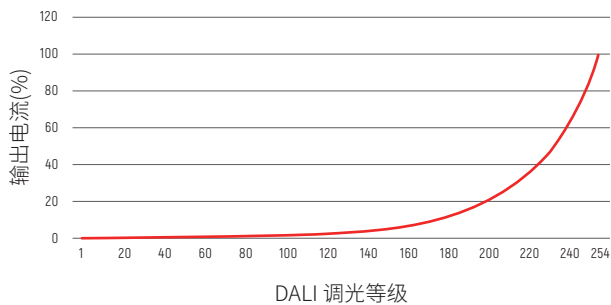
请勿将产品堆叠摆放, 产品与产品间隔距离应≥12cm, 避免影响产品散热和使用寿命。

断路器带载说明

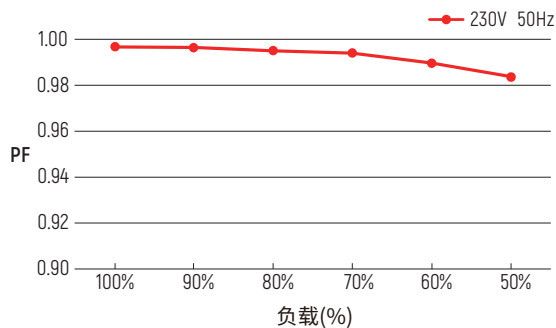
规范项	值	备注
浪涌电流 I _{peak}	46A	输入电压230VAC
浪涌电流 T _{width}	460us	输入电压230VAC, 在50%I _{peak} 下测试

MCB	输入电压230V 驱动器数量	MCB	输入电压230V 驱动器数量
B10	3pcs	C10	6pcs
B13	4pcs	C13	7pcs
B16	5pcs	C16	9pcs
B20	7pcs	C20	12pcs
		D16	19pcs

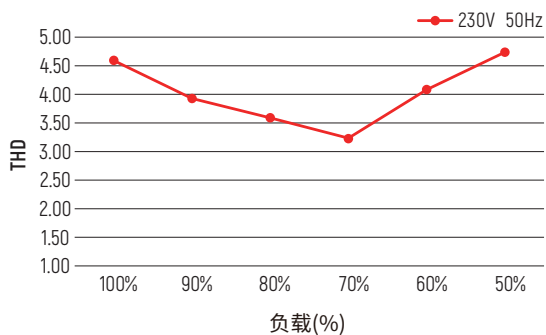
DALI 曲线



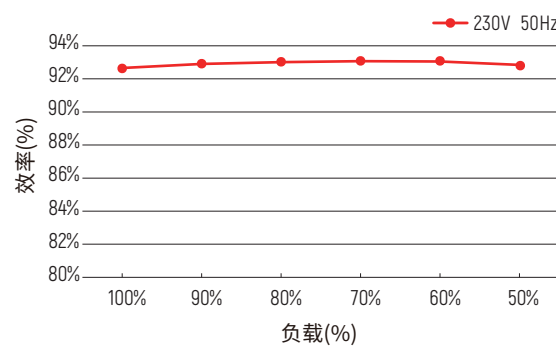
PF vs 负载曲线



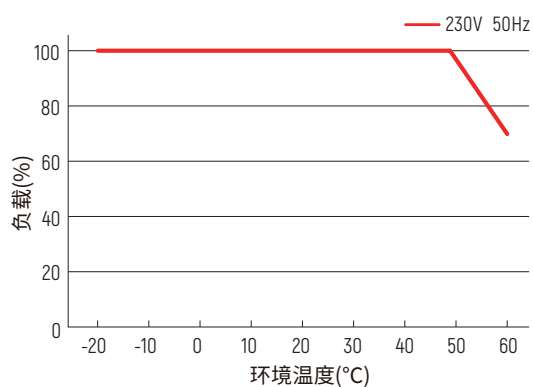
THD vs 负载曲线



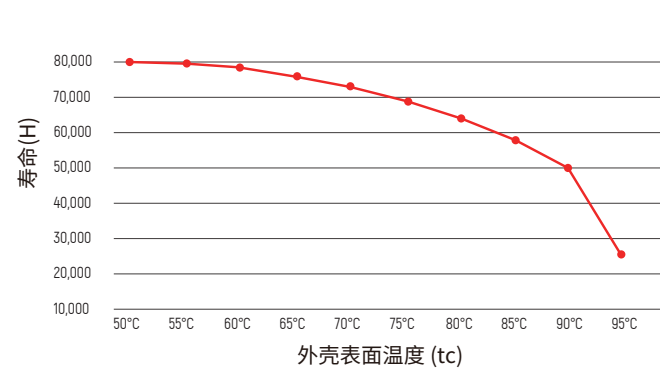
效率 vs 负载曲线



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。

注意事项

本产品应由具备专业资格的人员进行调试与安装		
1	安装条件确认	· 防水与防护: 根据电源的防水和防护要求, 选择合适的位置安装。无防水功能的产品应避免日晒雨淋, 户外安装时请使用防水箱保护。 · 散热要求: 驱动电源应避免暴露在高温环境中。请确保工作环境温度在推荐范围内。为确保驱动电源正常散热, 安装时应选择通风良好的地方。良好的散热条件有助于延长产品寿命。
2	电源检查	· 使用前, 检查产品参数, 确认LED电源的输出电压、电流符合要求
3	安全接线	· 需使用符合规格的线缆, 确保导线的截面与驱动电源要求匹配。通常为 0.75 – 2.5 mm² 的实心线缆, (具体线径要求请参阅丝印或说明书接线图)。 · 若电源(金属外壳)安装在已接地的灯具部件或设备上, 需要对电源进行接地处理。
4	接线确认	· 通电调试前, 确保接线牢固, 避免接触不良, 以防电流不稳或设备损坏。
5	维修建议	· 如产品发生故障, 请勿私自维修。如有疑问, 请联系供应商或销售处理。

※本说明书如有更新, 恕不另行通知。如产品功能与说明书不符, 以实际产品为准。

保修条例

1. **保修期**: 自产品出厂之日起, 享有 **5年保修期**。
2. **保修服务**: 在保修期内, 如因产品质量问题, 欧切斯将提供**免费修理或更换**服务。

非保修条例

以下情况不在免费保修或更换服务范围内:

1. 超出保修期。
2. 由于过高电压、超负载、操作不当等人为原因造成的损坏。
3. 产品外观严重损坏或变形。
4. 产品正常使用过程中产生的磨损或老化。
5. 自然灾害或不可抗力因素造成的损坏。
6. 产品的质量检验标签损坏 (QC PASS)。
7. 未提供与欧切斯签订的合同或有效发票凭证。

※补救措施: 修理或更换是欧切斯对客户的唯一补救方式, 且欧切斯不承担因修理或更换产生的附带损害赔偿责任, 除非在适用法律范围内。

※保修条款的调整: 欧切斯保留修改或调整保修条款的权利, 并以书面形式发布为准。