

OWP150D-1W24V

Summary

OWP150D-1W24V is a dimming driver that can provide constant voltage output. Complies with DALI standard protocol IEC 62386. LED driver featuring the dimming by DALI master/Touch DIM(PushDIM) switch, with smooth dimming curve and are flicker free.

Product Feature

- Single channel output with 24V Constant Voltage direct current
- With built-in active PFC function
- Meet DALI protocol IEC 62386-207
- Support Touch DIM(Push DIM) function
- Ultra-thin design, Waterproof level IP67
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load, over Current, lightning protection
- suitable for LED CV lighting, such as LED module, LED strip light, LED tube, and so on

Technical Parameters

Model	OWP150D-1W24V	
Input	Efficiency	≥91%@230VAC, Full load
	Voltage	120VAC-277VAC
	Frequency	50-60Hz
	Power Factor	≥0.95@230VAC, Full load
	THD	<10%@230VAC, Full load
	Current	0.98Amax@230VAC 1.74Amax@120V
	Inrush Current	Cold start 63A@230VAC 240us
	Standby power	≤0.5W@230VAC
	No load power	≤0.5W@230VAC
	Turn on delay Time	≤ 0.75 s, at230Vac (When the light begins to shine)
Output	Direct voltage	24VDC
	Rated current	6.25A
	Rated Power	150W
	Voltage Tolerance	±5%
	Ripple and noise(max)	±3%
	Channel	1
Protection	Short Circuit	Close output, recovers automatically after fault removed
	Over Current	Reduce current hiccup protection and troubleshoot normal output
	Over Load	Reduce current hiccup protection and troubleshoot normal output
Safety&EMC	Surge	L-N 6000VAC L-N-PG 10000VAC
	Withstand Voltage	I/P-O/P:3750VAC/5mA I/P-PG:1500VAC/5mA O/P-PG:500VAC/5mA
	Safety Standards	EN61347, GB19510
	EMC Emission	EN55015, EN61000-3-2 GB17743 GB17625.2
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547 GB17626.2.3.4.5.6.8.11
Function	Dimming mode	DALI2.0/Touch DIM(Push DIM)
	Dimming range	0.1%-100%
	Dimming curve	Logarithm
	Flicker	No Flicker
Others	Working Temp.	-20℃~+50℃@230VAC Input, -20℃~+40℃@120VAC Input
	Storage Temp.; Humidity	-40℃~85℃, 20-90%RH
	Tc	85℃
	Material	Metal
	IP Rating	IP67
	Lifetime	50,000h@tc:80℃
	Warranty Condition	5 years
	Switch Cycle	>25,000 times
	Packing Size	Net weight: 788g±5%/PCS; 20PCS/Carton; 16.3kg±5%/Carton; Carton Size: 347*257*214mm(L*W*H)
	Dimension	210*64*33mm(L*W*H)



Application



Wall Washer



LED Strip Light



LED Tube

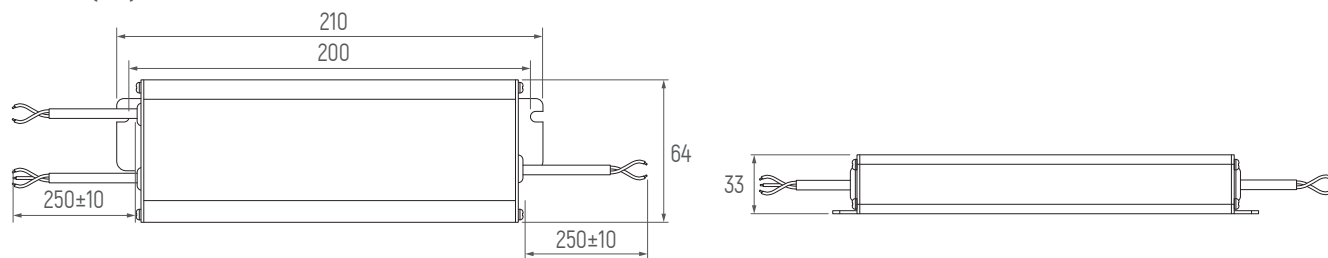


Underground Light

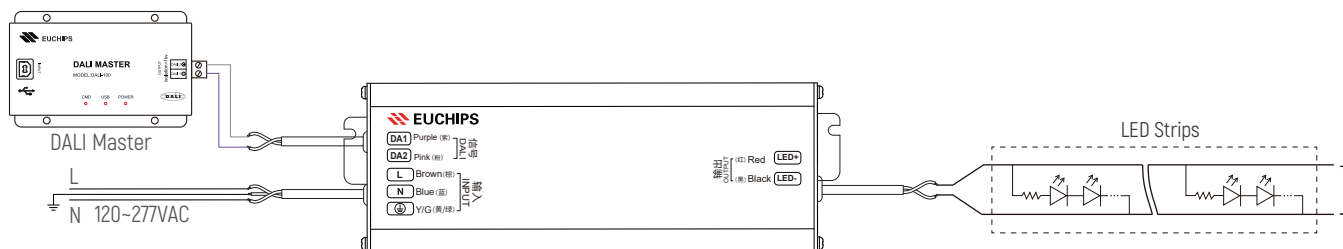


AR111 Venture Light

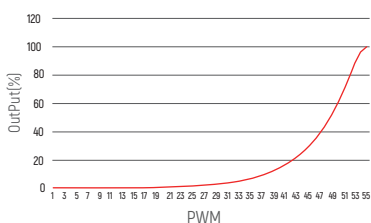
Dimension(mm)



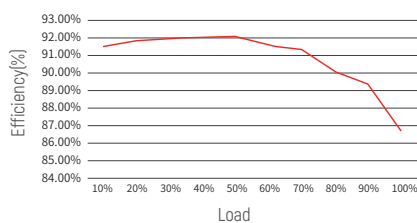
Wiring Diagram



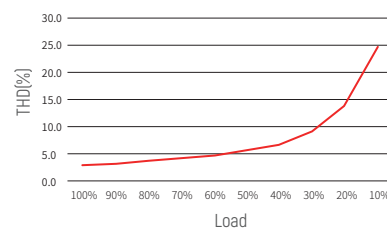
Dimming Curve



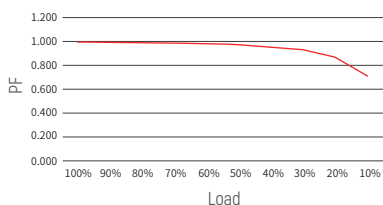
Efficiency vs Load



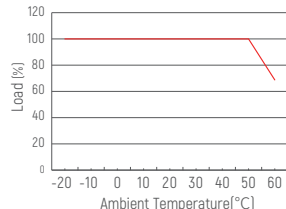
THD vs 负载



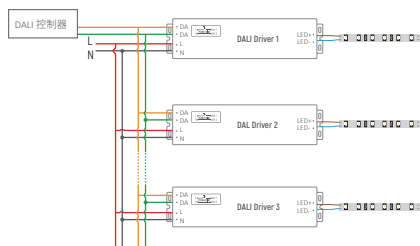
PF vs Load



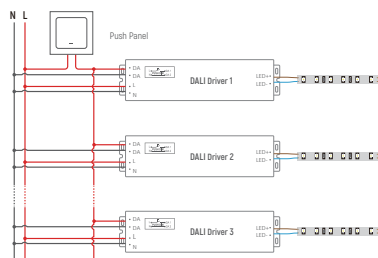
Derating Curve



DALI Diagram



Touch DIM(Push DIM) Diagram

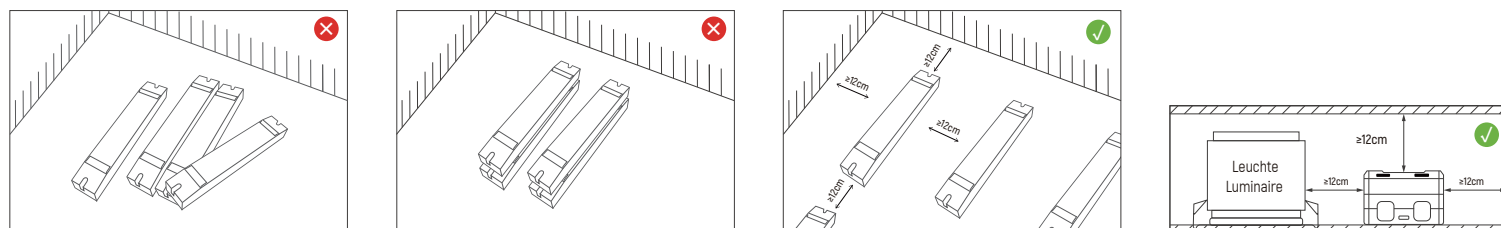


Touch Dim(Push DIM) Function

1. Press the Touch DIM switch for 8s or more, the driver can be controlled via Touch DIM switch.
2. Short press the Touch DIM switch (<0.5s) to control the lamp on or off.
3. Long press the 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 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 Touch DIM switch.
6. With the Power off memory function, the power-down state will be recovered when power on again.

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

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.

OWP150D-1W24V

概述

OWP150D-1W24V是一款可提供恒压输出的调光驱动器符合DALI标准协议IEC62386. 用DALI主控/Touch DIM(PushDIM)开关调光，曲线平滑、无闪烁。

产品特点

- 单通道恒压直流24V输出
- 内置主动PFC功能
- 遵循DALI协议标准 IEC62386-207
- 支持Touch DIM(Push DIM)功能
- 超薄设计, 防水等级IP67
- 调光平滑无闪烁
- 保护：防雷, 短路保护, 过载保护, 过流保护
- 适用于LED恒压灯具, 如LED模组, 灯带, 灯条等



IP67

CE

应用

洗墙灯

RoHS

LED灯带

LED硬灯条

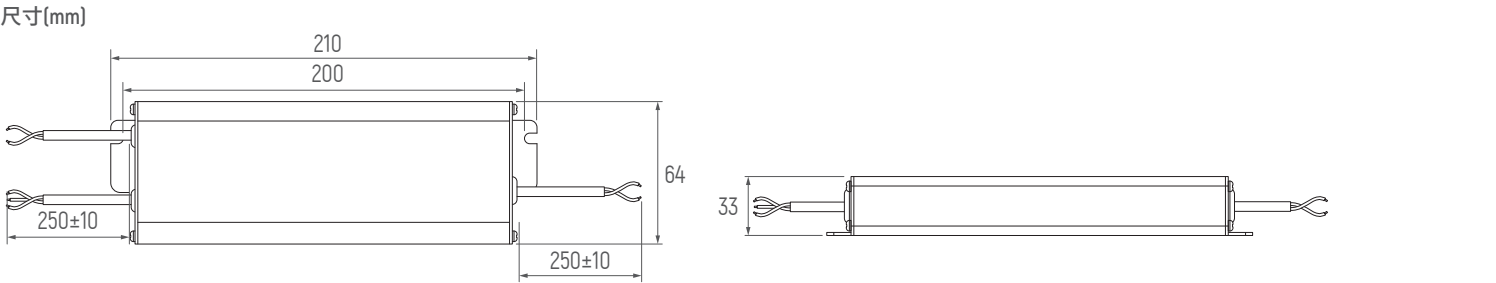
地埋灯

AR斗胆灯

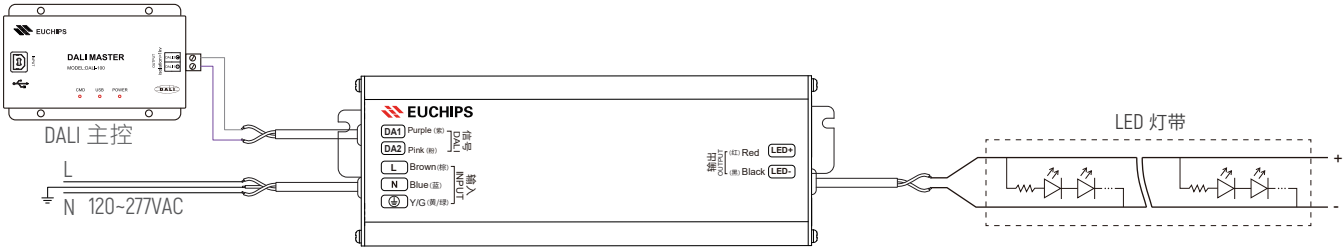
SELV

技术参数

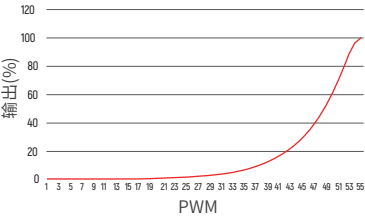
产品型号	OWP150D-1W24V	
输入	效率	≥91%@230VAC, 满载
	电压	120VAC-277VAC
	频率	50-60Hz
	功率因素	≥0.95@230VAC, 满载
	THD	<10%@230VAC, 满载
	电流	0.98Amax@230VAC 1.74Amax@120V
	浪涌电流	冷启动63A@230VAC 240us
	待机功耗	≤0.5W@230VAC
	空载功耗	≤0.5W@230VAC
	启动延时	≤ 0.75 s, at230Vac (当光线亮起)
输出	直流电压	24VDC
	额定电流	6.25A
	额定功率	150W
	电压精度	±5%
	纹波电压	±3%
	通道	1
保护	短路	短路无输出，排除故障输出正常
	过流	降低电流打嗝保护，排除故障输出正常
	过载	降低电流打嗝保护，排除故障输出正常
安全与电磁兼容	雷涌	L-N 6000VAC L-N-PG 10000VAC
	耐受电压	I/P-O/P:3750VAC/5mA I/P-PG:1500VAC/5mA O/P-PG:500VAC/5mA
	安全标准	EN61347, GB19510
	电磁干扰	EN55015, EN61000-3-2 GB17743 GB17625.2
	电磁抗扰度	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547 GB17626.2.3.4.5.6.8.11
功能	调光模式	DALI2.0/Touch DIM(Push DIM)
	调光范围	0.1%-100%
	调光曲线	对数
	频闪	无频闪
其它	工作温度	-20°C~+50°C@230VAC输入， -20°C~+40°C@120VAC输入
	储存温度&湿度	-40°C~85°C, 20-90%RH
	Tc	85°C
	材质	金属
	防水等级	IP67
	寿命	50,000h@tc:80°C
	质保	5年
	开关次数	>25,000次
	箱重尺寸	净重: 788g±5%/个; 20个/箱; 16.3kg±5%/箱; 外箱尺寸: 347*233*214mm[长*宽*高]
	产品尺寸	210*64*33毫米[长*宽*高]



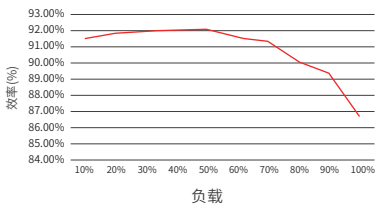
应用接线图



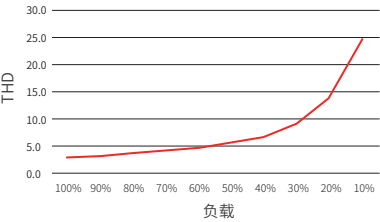
调光曲线



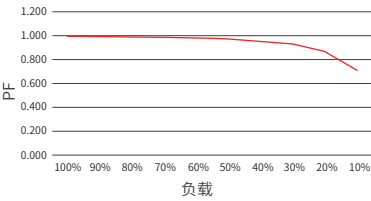
效率 vs 负载



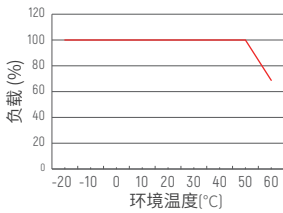
THD vs 负载



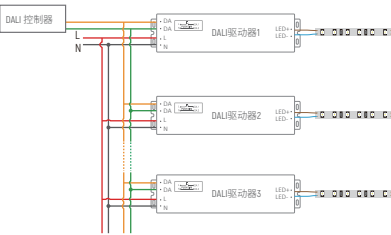
PF vs 负载



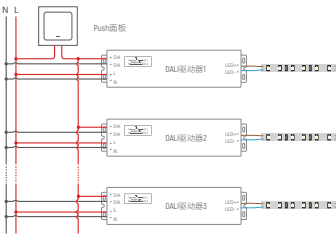
降额曲线



DALI应用图



Touch DIM(Push DIM)应用图

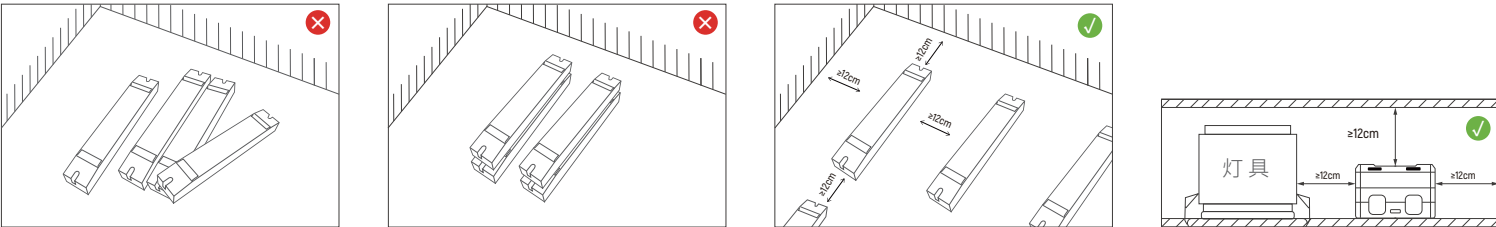


Touch Dim(Push DIM)功能

- 1.长按8s进入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.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。

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

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。

※ 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。