

OWP320D-1W24V

Summary

OWP320D-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

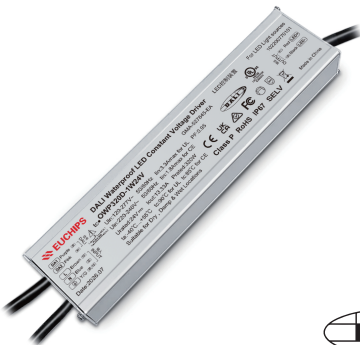
- Single channel output with 24V CV direct current
- Wide voltage input range from 120VAC to 277VAC
- Active PFC, full power
- Meet DALI protocol IEC 62386
- Support Touch DIM(Push DIM) function
- Ultra-thin design, Waterproof level IP67, High efficiency up to 93%
- Dimming effect smooth, flicker free
- Suitable for Dry , Damp & Wet Locations
- Suitable for LED CV lighting, such as LED module, LED strip light, LED tube, and so on

Caution/prudence

- Keep away from heat flammable materials
- Install properly for better heat dissipation
- Please do not touch during operation
- Tenir à l'écart des matériaux inflammables sous forme de chaleur
- Installer correctement pour une meilleure dissipation de la chaleur
- S'il vous plaît ne pas toucher pendant le fonctionnement

Technical Parameters

Model	OWP320D-1W24V	
Input	Efficiency	≥93%@230VAC, Full load
	Voltage	120VAC-277VAC
	Frequency	50/60Hz
	Power Factor	>0.95@230VAC, Full load
	THD	≤10%230VAC, Full load
	Current	3.3Amax@120VAC
	Inrush Current	Cold start 60A@230VAC 700us
Output	Channel	1
	Direct voltage	24VDC
	Rated current	13.33A
	Rated Power	320W
	Voltage Tolerance	±5%
	Standby power	<0.5W
	PstLM	≤1
	SVM	≤0.4
	Dimming frequency	20KHz
	Line Regulation	±3% @Full load
	Load Regulation	±3% @Full load
	Start delay	<0.75s, at230Vac (when lights start to come on)
Protection	Short Circuit	Self-recovery after removal
	Over Load	Self-recovery after removal
Safety&EMC	Surge	L-N 6KV L-PE 10KV N-PE 10KV
	Withstand Voltage	I/P-O/P: 3750Vac/1min/<5mA I/P-PG:1500Vac/1min/<5mA O/P-PG:500Vac/1min/<5mA Signal-O/P: 1500VAC/1min/<5mA
	Safety Standards	EN61347-1, EN61347-2-13; UL8750:2015 Ed.2+R:07Dec2022, UL1310, CSA-C22.2 No. 250.13:2022 Ed.5
	EMI Emission	EN55015,EN61000-3-2 Class C,IEC61000-3-3 FCC Part 15 Class B(120V)/Class A(277V)
	EMS Immunity	EN61547, EN61000-4-2, 3, 4, 5, 6, 8, 11
Function	Dimming mode	DALI2.0/Touch DIM(Push DIM)
	Dimming range	0.1%-100%
	DALI standard	IEC62386-101, IEC62386-102, IEC62386-207
Others	Working Temp.	-40°C...+55°C(-40~131°F)
	Storage Temp.; Humidity	-40°C...+85°C(-40~185°F), 20-90%RH
	tc	UL: 90°C(194°F) CE: 85°C(185°F) for safety & 70°C(158°F) for life
	Material	Aluminum housing
	IP Rating	IP67
	Lifetime	50,000h@tc:70°C { 158°F }
	Warranty Condition	5 years
	Switch Cycle	>25,000 times
	Dimension	280*63*33mm(11.02*2.48*1.3 Inch)[(L*W*H)]
	Packing Size	Net weight: 1075g(2.37 lb)±5%/PCS; 10PCS/Carton; 11.25kg(24.8 lb)±5%/Carton; Carton Size: 316*202*194mm(12.44*7.95*7.64 Inch)[(L*W*H)]





Class P

RoHS

IP67

SELV

Application



Wall Washer



LED Strip Light



LED Tube



Underground Light



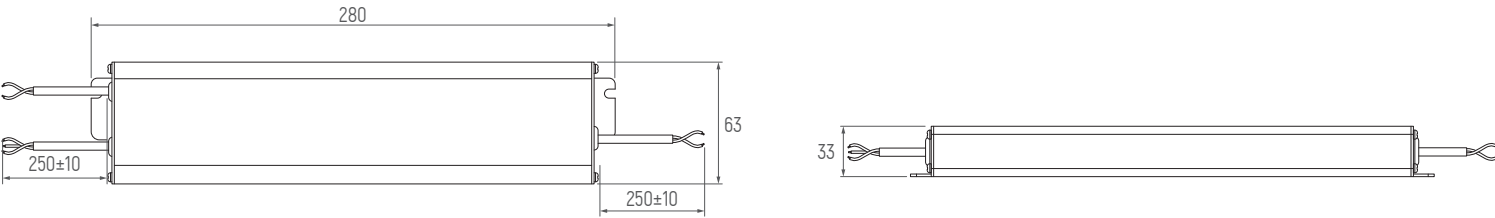
ART11 Venture Light

User's manual: 2026.07

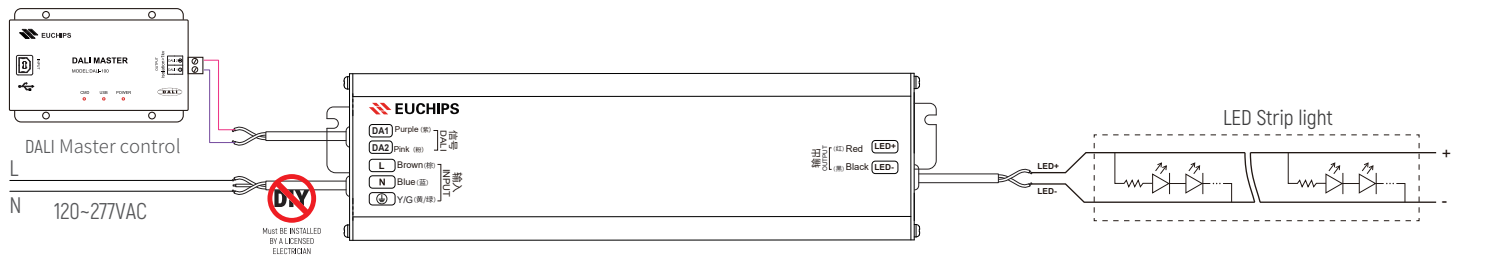
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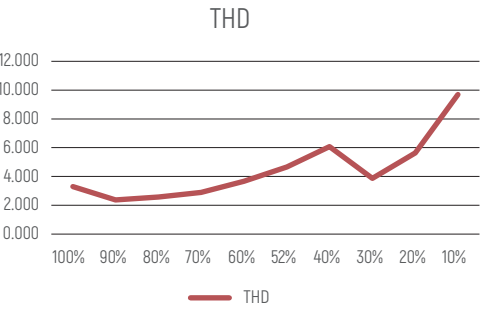
Dimension(mm)



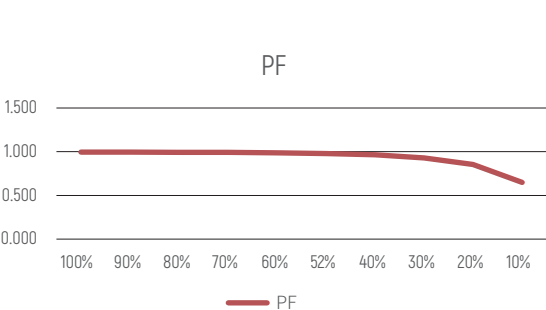
Wiring Diagram



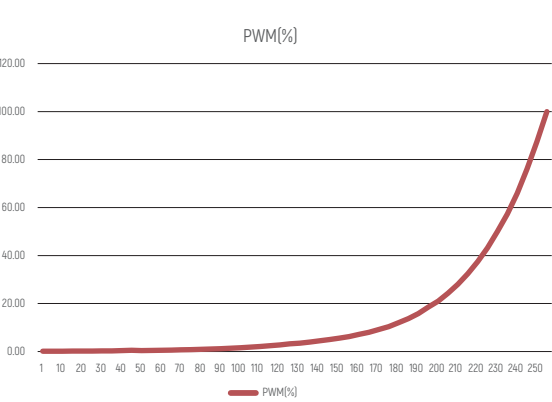
THD vs load



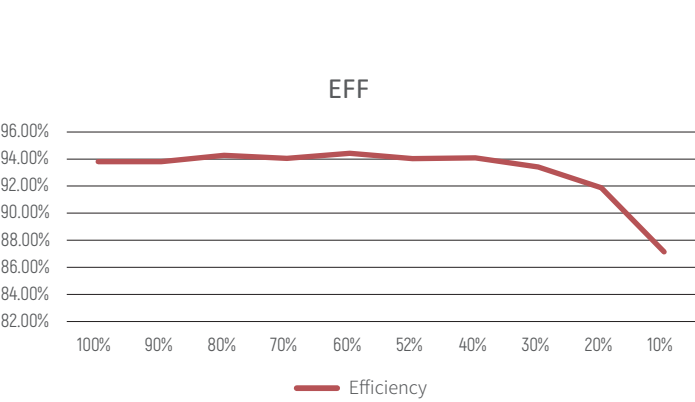
PF vs load



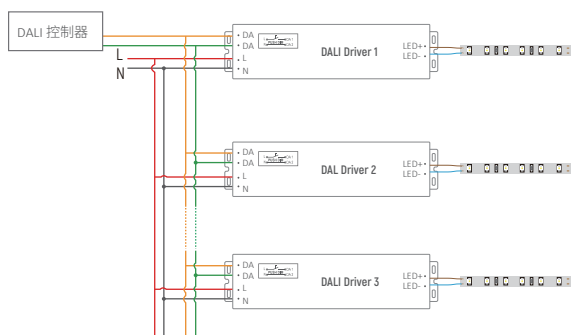
Dimming curve



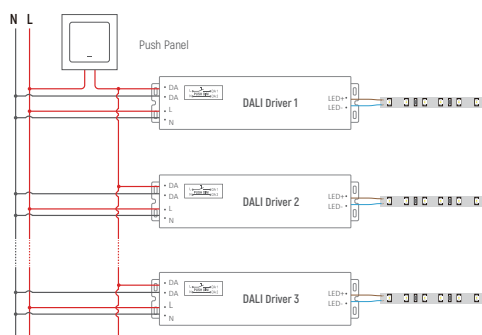
Efficiency vs load



DALI Diagram



Touch DIM(Push DIM) Diagram

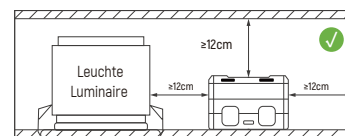
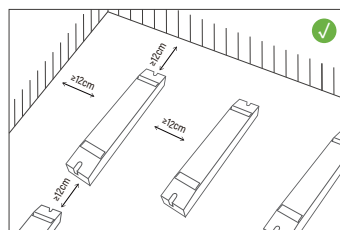
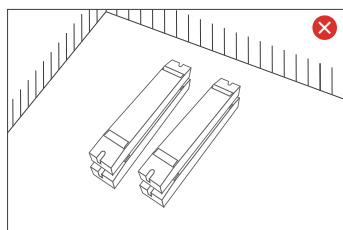
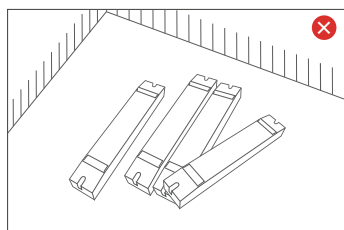


Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

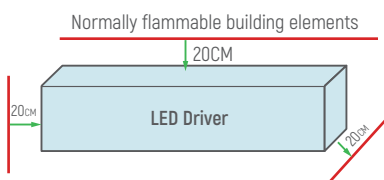
Touch Dim(Push DIM) Function

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.
6. With the Power off memory function, the power-down state will be recovered when power on again.

Installation Precautions



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



Instructions shall be provided with controlgear that have FELV control terminals that state the following:

Warning: FELV terminals marked "Risk of electric shock" are not safe to touch.

Warning: Circuits connected to any FELV control terminal shall be insulated for the LV supply voltage of the controlgear and any terminals connected to the FELV circuit shall be protected against accidental contact.

The external flexible cable or cord of this Driver cannot be replaced; If the flexible wire is damaged, the dimming circuit (FELV circuit) of the Driver should be insulated from the input end, the basic insulation dimming circuit (FELV circuit) should be insulated from the output end, and the auxiliary insulation dimming circuit (FELV circuit) and the output end should be insulated by functional insulation and grounding conductive parts.

※ 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.

OWP320D-1W24V

概述

OWP320D-1W24V是一款可提供恒压输出的调光驱动器符合DALI标准协议IEC 62386. 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
- 宽电压输入范围120VAC~277VAC
- 主动式PFC，足功率
- 遵循DALI协议标准 IEC 62386
- 支持Touch DIM(Push DIM)功能
- 超薄设计, 防水等级IP67, 效率高达93%
- 平滑调光效果, 无频闪
- 适用于干燥、潮湿和湿润的场所
- 适用于LED恒压灯具, 如LED模组, 灯带, 灯条等

注意/慎重

- 远离热源和易燃物
- 安装到位，确保良好散热
- 运行期间请勿触摸

技术参数

产品型号	OWP320D-1W24V	
输入	效率	≥93%@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	3.3Amax@120VAC
	浪涌电流	冷启动60A@230VAC 700us
输出	通道	1
	电压	24VDC
	电流	13.33A
	功率	320W
	电流公差	±5%
	待机功耗	<0.5W
	PstLM	≤1
	SVM	≤0.4
	调光频率	20KHz
	线性调整率	±3% @满载
	负载调整率	±3% @满载
	启动延时	<0.75s, at230Vac (当灯光开始亮起)
保护	短路	去除后自恢复
	负载	去除后自恢复
安全与电磁兼容	浪涌	L-N 6KV L-PE 10KV N-PE 10KV
	耐压	I/P-O/P: 3750Vac/1min/<5mA I/P-PG:1500Vac/1min/<5mA O/P-PG:500Vac/1min/<5mA Signal-O/P: 1500VAC/1min/<5mA
	安全标准	EN61347-1, EN61347-2-13; UL8750:2015 Ed.2+R:07Dec2022, UL1310, CSA-C22.2 No. 250.13:2022 Ed.5
	EMI电磁干扰	EN55015,EN61000-3-2 Class C,IEC61000-3-3 FCC Part 15 Class B(120V)/Class A(277V)
	EMS电磁抗干扰度	EN61547, EN61000-4-2, 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%
	DALI标准	IEC62386-101, IEC62386-102, IEC62386-207
其它	工作温度	-40°C...+55°C[-40~131°F]
	储存温度&湿度	-40°C...+85°C[-40~185°F], 20-90%RH
	tc	UL: 90°C[194°F] CE: 85°C[185°F] 安规 & 70°C[158°F] 寿命
	材质	铝外壳
	防水等级	IP67
	寿命	50,000h@tc:70°C[158°F]
	质保	5年
	开关次数	>25,000次
	产品尺寸	280*63*33mm[11.02*2.48*1.3 Inch][长*宽*高]
	箱重尺寸	净重: 1075g[2.37 lb]±5%/个; 10个/箱; 11.25kg[24.8 lb]kg±5%/箱; 外箱尺寸: 316*202*194mm[12.44*7.95*7.64 Inch][长*宽*高]



应用

