

OWP75D-1W48V

Summary

OWP75D-1W48V 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 48V CV direct current
- Voltage input range from 120VAC to 277VAC
- Built-in active PFC function
- Meet DALI protocol IEC 62386-207
- Support Touch DIM(Push DIM) function
- Ultra-thin design, Waterproof level IP67, High efficiency up to ≥90%
- Dimming effect smooth, no flicker
- Protections: Short circuit, over load, over voltage, lightning protection
- suitable for LED CV lighting, such as LED module, LED strip light, LED tube, and so on

Technical Parameters

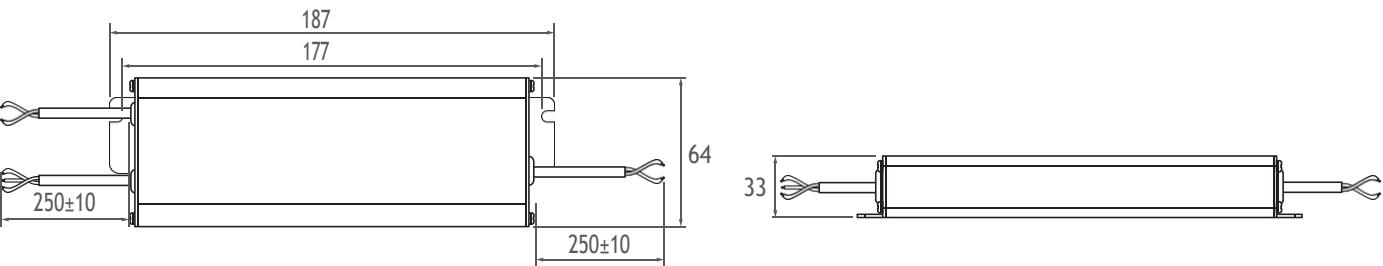
Model	OWP75D-1W48V	
Input	Efficiency	≥90%@230VAC, Full load
	Voltage	120-277VAC
	Frequency	50-60Hz
	Power Factor	≥0.95@230VAC, Full load
	THD	<10%@230VAC, Full load
	Standby power	<0.5W
	No load power	<0.5W
	Current	0.47Amax@230VAC 0.9Amax@120VAC
	Inrush Current	Cold start,43A@230VAC 224us
	Turn on delay Time	≤ 0.75 s, at230Vac (When the light begins to shine)
Output	Current / Voltage / Power	1.56A / 48V / 75W
	Channel	1
	Output Voltage	±5%
	Ripple Voltage	±3%
	No load output voltage	50.4V max
Protection	Over load	Reduce current burp protection, troubleshoot normal output
	Short circuit	Short circuit No output, troubleshooting output normal
	Over Current	Reduce current burp protection, 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	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547
	Insulation Resisance	5MΩ
Function	Dimming mode	DALI2.0/Touch DIM(Push DIM)
	Dimming range	0.1%-100%
	Dimming curve	Logarithm
Others	Working Temp.	-20℃~+50℃
	Storage Temp.; Humidity	-40℃~85℃, 20-90%RH
	Tc	75℃
	Material	Metal
	IP Rating	IP67
	Lifetime	50,000h@tc:70℃
	Warranty Condition	5 years
	Switch Cycle	>25,000 times
	Packing Size	Net weight: ---g±5%/PCS; ---PCS/Carton; ---kg±5%/Carton; Carton Size: ---*---*---mm(L*W*H)
	Dimension	187*64*33mm(L*W*H)



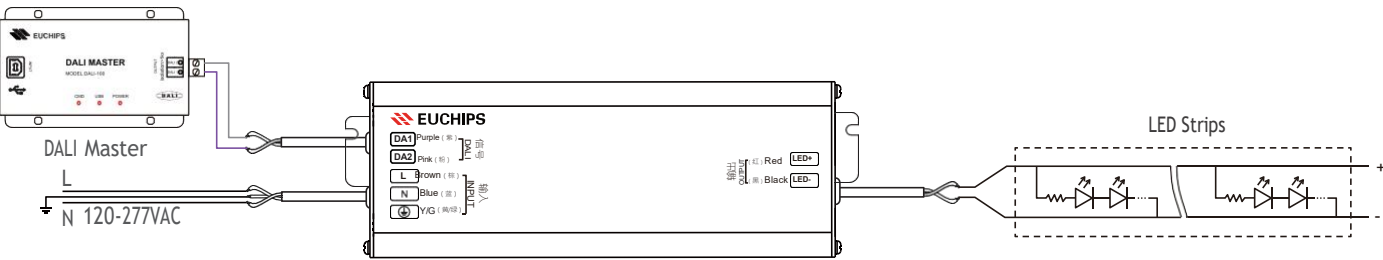
Application



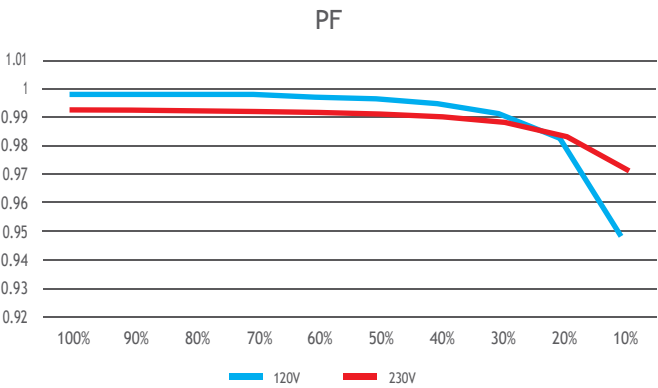
Dimension(mm)



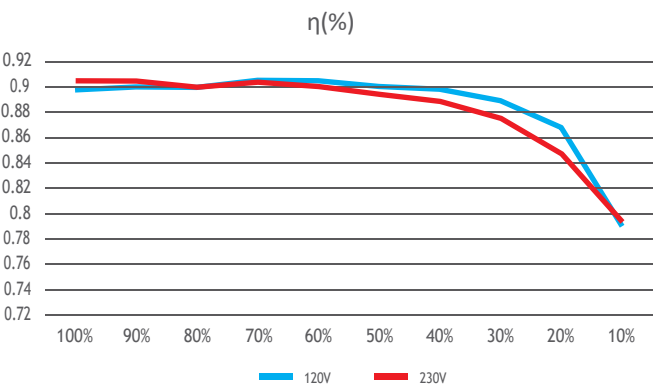
Wiring Diagram



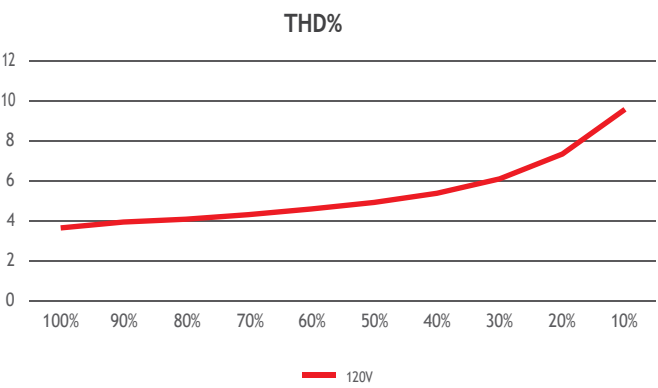
PF vs Load



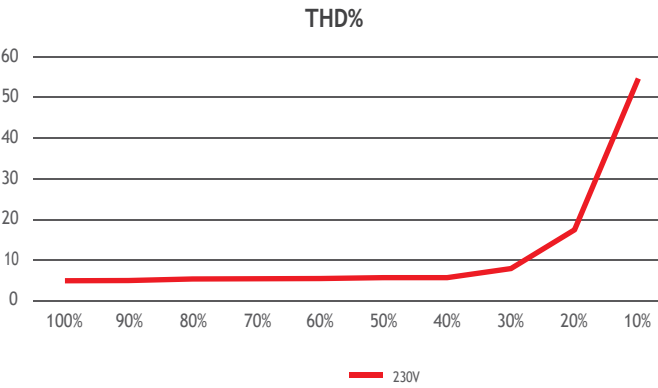
Eff. vs Load



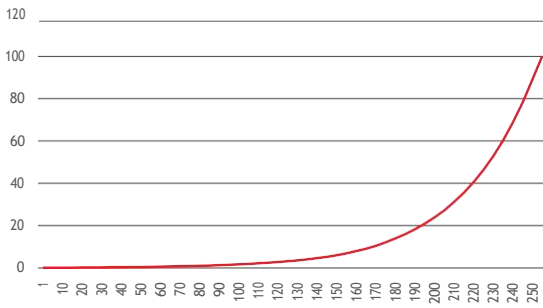
THD



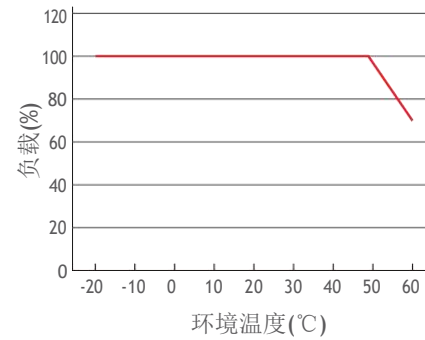
THD



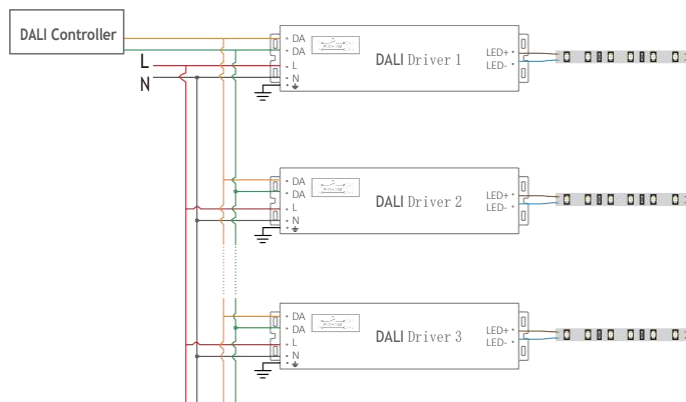
Dimming Curve



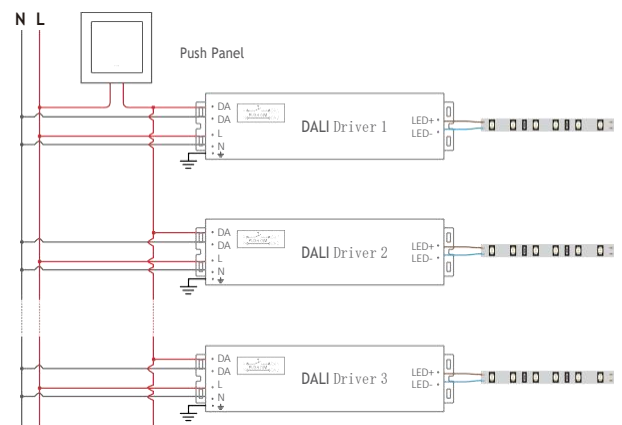
Derating curve



DALI Diagram



Touch DIM(Push DIM) Diagram

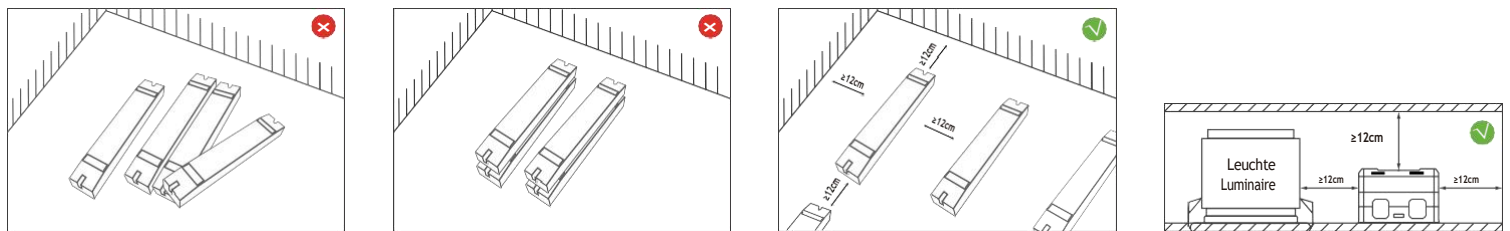


Remark: Only use open push button without indicator light. Maximum cable length between each Unit: 20 meters.

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%, 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.

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.

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- 2.5mm² 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.