

OWP150D-1W12V

Summary

OWP150D-1W12V 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 12V 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-1W12V	
Input	Efficiency	≥89%@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	12VDC
	Rated current	12.5A
	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	DALI
	Dimming range	0.1%-100%
	Dimming curve	Logarithm
	Flicker	No Flicker
Others	Working Temp.	-20 C ~+50 C @230VAC Input, - 20 C ~+40 C @120VAC Input
	Storage Temp.; Humidity	-40°C~85°C, 20-90%RH
	Tc	85°C
	Material	Metal
	IP Rating	IP67
	Lifetime	50,000h@tc:80°C
	Warranty Condition	5 years
	Switch Cycle	>25,000 times
	Packing Size	Net weight: 788g±5%/PCS; 20PCS/Cartron; 16.3kg±5%/Cartron; Carton Size: 347*257*214mm(L*W*H)
	Dimension	210*64*33mm(L*W*H)



RoHS

IP67

Application

Wall Washer

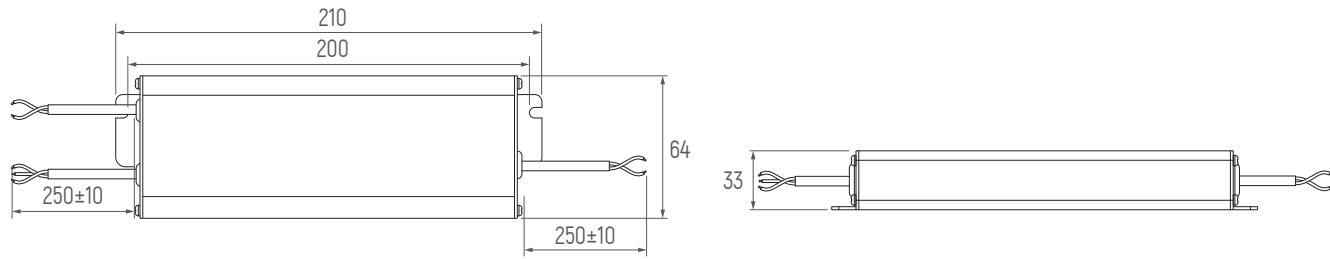
LED Strip Light

LED Tube

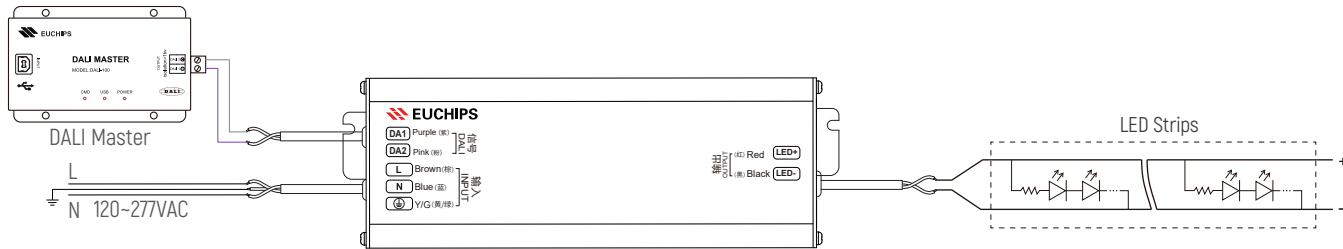
Underground Light

AR111 Venture Light

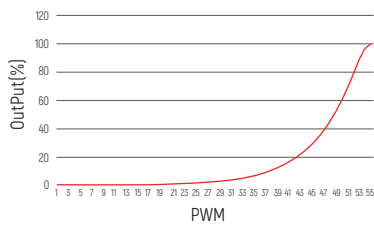
Dimension(mm)



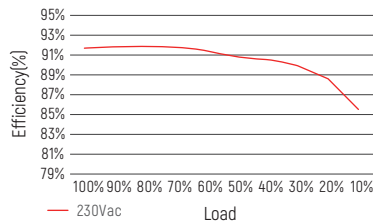
Wiring Diagram



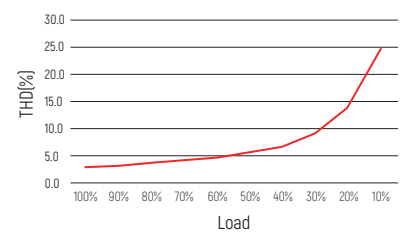
Dimming Curve



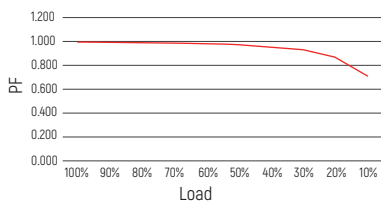
Efficiency vs Load



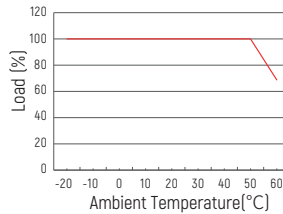
THD vs Load



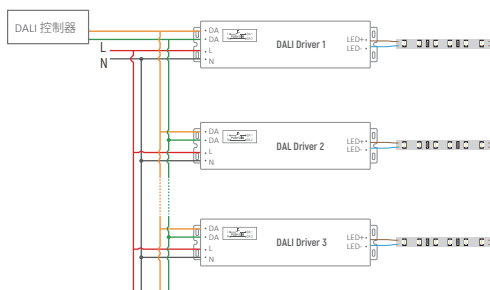
PF vs Load



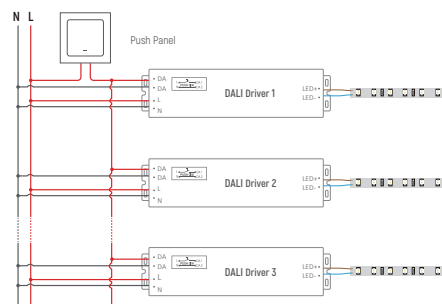
Derating Curve



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.

※ 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.