WEUCHIPS

OWP150A-1W24V

Summary

OWP150A-1W24V is a waterproof constant voltage output LED dimming driver. Supports 0/1-10V active signals, adjustable resistors, PWM, achieving smooth dimming effect.

Product Features

- · Single channel constant voltage output, output current is 6.25A max
- · Dimming range 0.1% -100% dimming, smooth dimming without any step or flicker
- · Built in PFC chip to improve energy efficiency and reduce pollution to the power grid
- · Waterproof rating IP67, suitable for outdoor lighting
- · Protection: Overload, overcurrent, short circuit protection
- · Lifespan of 50000 hours, 5-year warranty

Technical Paramaters

X 0 RoHS IP67 CE (\square) SELV

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Short Circuit Protection

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Over Current Protection

Over Load Protection

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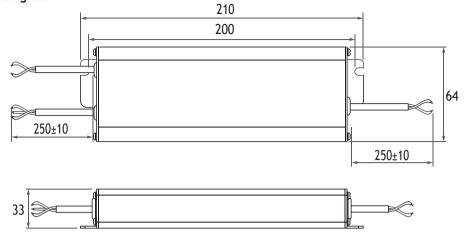
0-10V/1-10V



Model	OWP150A-1W24V						
Input	Efficiency	≥88%@120VAC, ≥90%@277VAC, full load					
	Frequency	50/60Hz					
	Voltage	120VAC-277VAC					
	Power Factor	0.95@120VAC, 0.95@277VAC, full load					
	THD(full load)	10%@120VAC, 10%@277VAC, full load					
	Current	1.74Amax@120VAC, 0.74A@277VAC					
	Inrush Current	Cold start, 38A@120VAC 268us, 79A@277VAC 116us					
	Standby Power	<0.5W					
	No load power	<1W					
	Turn on delay Time	0.75s (@120VAC, When the light begins to shine)					
	Current	6.25A					
	Voltage	24VDC					
-	Voltage Accuracy	±5%					
0	Power	150W					
Output	Channel	1					
	Over power limit	≥120%					
	Ripple	≤720mV					
-	Frequency	20KHz PWM					
	Short Circuit	Turn off output, self recover after troubleshooting					
Protection	Over Current	Reduce current protection, restore normal operation after troubleshooting					
	Over Load	Reduce current protection, restore normal operation after troubleshooting					
	Surge	L-N: 6KV L-N-PG: 10KV					
Safety	Withstand Voltage	I/P-O/P: 3750Vac/1min/<5mA, I/P-PG:1500Vac/1min/<5mA					
EMC	Safety standards	EN61347, GB19510					
EMC	EMI Eission	EN55015, EN61000-3-2 GB17743 GB17625.2					
-	Insulation Resisance	5 ΜΩ					
	Dimming Type	0-10V					
	Dimming Range	0.1%-100%					
Function	Dimming curve	Logarithm					
-	Flicker	Flicker free					
	IP Rating	IP67					
-	Working Temp.	-20-+50 ℃					
	Storage Temp., Humidity	-40-+85°C, 20-90% RH					
-	tc	85℃					
其它	Lifetime	50,000h@tc:85°C					
	Warranty Condition	5years					
	Switch Cycle	>25,000 times					
	Material	Metal					
	Dimension	210*64*33mm(L*W*H)					
	Packing(weight)	Net weight: 745g±5%/PCS; 20PCS/Carton; 15.4kg±5%/Carton; Carton Size:347*257*214mm(L*W*H)					



Wiring Diagram

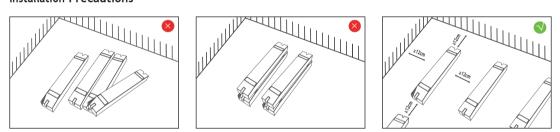


Dimension(mm)

0-10V Dimmer L (Brown) N (Blue) GND (Y/G) UM-(Pink) UM-(Pink)

Installation Precautions

Max. quantity of drivers per miniature circuit breaker



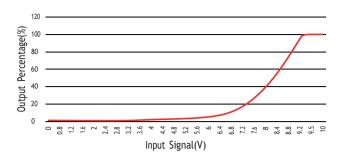
Please do not stack the products. The distance between two products should be>12cm so as not to affect heat dissipation and the lifespan of the products.

Specification item Value Value Condition Inrush current Ipeak 38A (120V) 79A (277V) Input Voltage120V/277V Inrush current Twidth 268us (120V) 116us (277V) Input Voltage120V/277V, measured ta 50% Ipeak

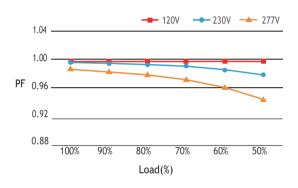
MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	5pcs	9pcs	C10	5pcs	13pcs
B13	7pcs	12pcs	C13	7pcs	17pcs
B16	9pcs	14pcs	C16	9pcs	21pcs
B20	11pcs	18pcs	C20	11pcs	27pcs
			D16	9pcs	21pcs



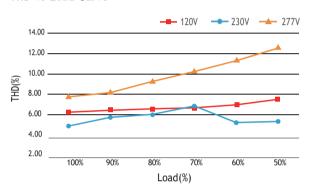
0-10V调光曲线



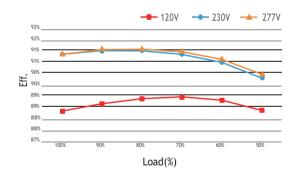
PF vs Load Curve



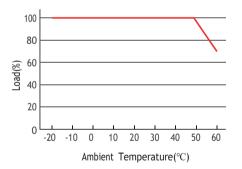
THD vs Load Curve



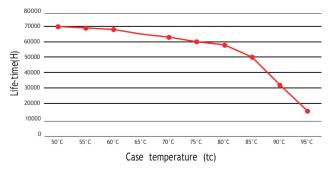
Efficiency vs Load Curve



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 tc ta temperature depends also on the luminaire design.

User's manual: 2024.12

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Cautions

- 1. This product should be installed by qualified personnel.
- 2. Good heat dissipation conditions extend product life. Please install the product in a well-ventilated environment.
- 3. Please make sure LED power supply output voltage, current is used to meet the product requirements.
- 4. 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.
- 5. 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.
- 6. 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 .

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:

- 1. Beyond warranty periods.
- 2. Any artificial damage caused by high voltage, overload, or improper operations
- 3. Products with severe physical damage.
- 4. Damage caused by natural disasters and force majeure.
- 5. Warranty labels and barcodes have been damaged.
- 6. No any contract signed by EUCHIPS.

• Repair or replacement provided is the only remedy for customers. EUCHIPS is not liable for any incidental or consequential damage unless it is within the law. • EUCHIPS has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.