

OWP240D-1W24V

Product Feature

- Single channel constant voltage output, maximum output current 10.0A
- Lightning protection, short circuit, overcurrent, overload, metal shell
- Protection class IP67, suitable for outdoor lighting
- Smooth dimming without step sense and stroboscopic
- Life of 50,000 hours, 5 years warranty
- Customizable dimming curve
- Wide voltage input with active PFC, full power output
- Suitable for Dry , Damp & Wet Locations
- Suitable for LED constant voltage lamps, lamp strips, etc

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

Application

For LED constant voltage strip light only



LED Strips



LED Tube



Class P



RoHS



IP67



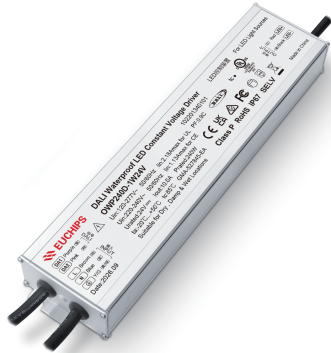
SELV



LISTED
LED DRIVER
E490914



IP67
IP Rating



Technical Parameters

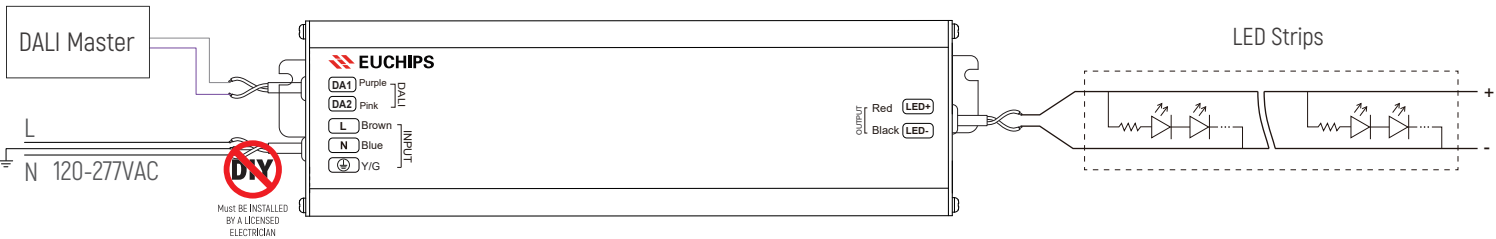
Model	OWP240D-1W24V		
Input	Input Voltage	120VAC-277VAC	
	Frequency Range(Hz)	50/60Hz	
	Input Current	2.18Amax@120VAC, 1.13Amax@230VAC, 0.99Amax@277VAC	
	Power Factor	≥0.95@120VAC, Full load ≥0.90@277VAC, Full load	
	Efficiency	≥90%@120VAC, Full load ≥93%@277VAC, Full load	
	THD	≤10%@230VAC, Full load ≤10%@277VAC, Full load	
	Standby power	<1.5W	
	No-load power	<1.5W	
	Inrush Current	Cold start, 50.2A@120VAC 400us, 96.6A@277VAC 430us	
Output	Output Voltage	24VDC	
	Voltage Accuracy	±5%	
	Output Current	10.00A Max.	
	Output Power	240W Max.	
	PstLM	≤1	
	SVM	≤0.4	
	Dimming frequency	20KHz	
	Line Regulation	±3% @Full load	
	Load Regulation	±3% @Full load	
Function	Turn on delay Time	0.75s, at 120Vac (When the light begins to shine)	
	Dimming Type	DALI2.0 PUSH DIM	
	Dimming Range	0.1%-100% Dimming to OFF	
	Dimming Curve	Logarithm	
Protection	Flicker	Flicker free	
	Short circuit	Close the output and recover after troubleshooting	
	Over Current	Reduce current burp protection, self-recovery after troubleshooting	
	Over load	Reduce current burp protection, self-recovery after troubleshooting	
	Over Voltage	/	
Safety& EMC	Over temperature	/	
	Surge	L-N:6KV L-N-PE 10KV	
	Withstand Voltage	I/P-O/P: 3750VAC/1min/5mA I/P-PE:1500VAC/5mA O/P-PE:500VAC/5mA I/P-DALI(Signal port):1500Vac/1min/<5mA	
	Safety Standards	CCC (China)	GB19510.1, GB19510.14 TUV (Germany) EN61347-1, EN61347-2-13, EN62493
		CB (CBmember states)	IEC61347-1, IEC61347-2-13 CE (European Union) EN61347-1, EN61347-2-13, EN62384
		RCM (Australia)	AS 61347-1, AS 61347-2-13 EMEC (Europe) EN61347-1, EN61347-2-13, EN62384
		UL	UL8750:2015 Ed.2+R:07Dec2022, UL1310, CSA-C22.2 No. 250.13:2022 Ed.5
	EMC Emission	CCC (China)	GB/T17743, GB17625.1
		CE (European Union)	EN55015, EN61000-3-2, EN61000-3-3, EN61547
		RCM (Australia)	EN55015, EN61000-3-2, EN61000-3-3, EN61547
		FCC	Part 15 Class B(120V)/Class A(277V)
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547	

Environment	Working Temp.	-20°C...+50°C [-4°F~122°F]
	Storage Temp.	-40°C...+85°C [-40°F~185°F]
	Storage Humidity	20-90%RH (No condensation)
Others	RoHS	Comply with 2015/863/EU
	tc	85 C [185°F] for safety & life
	material	Metal
	IP Rating	IP67
	Lifetime	50,000h@tc:85 C [185°F]
	Warranty Condition	5years
	Switch Cycle	25,000times
	Body size	280*64*33mm (11.02*2.51*1.29 Inch) (L*W*H)
	Packing[weight]	Net weight: 1112g (2.45lb)±5%/PCS; 10PCS/Carton; 11.62kg(25.61lb)±5%/Carton; Carton Size: 316*202*194mm(12.44*7.95*7.63 Inch)(L*W*H)
	Noise	In a quiet environment, no noise beyond 30-50cm
Remark	All parameters were measured at an input voltage of 230VAC/50Hz and an ambient temperature of 25 °C without any special instructions.	

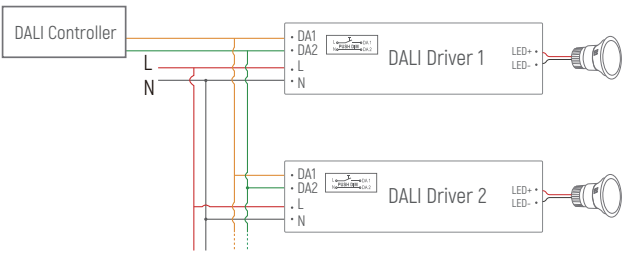
Dimension(mm)



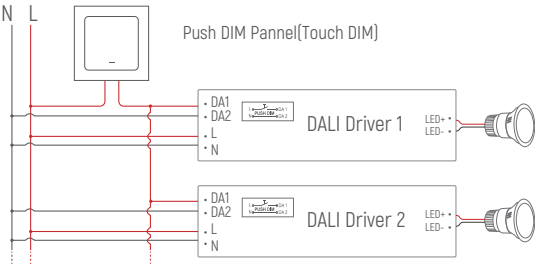
Wiring Diagram



DALI Wiring Diagram



Push DIM(Touch DIM) Diagram

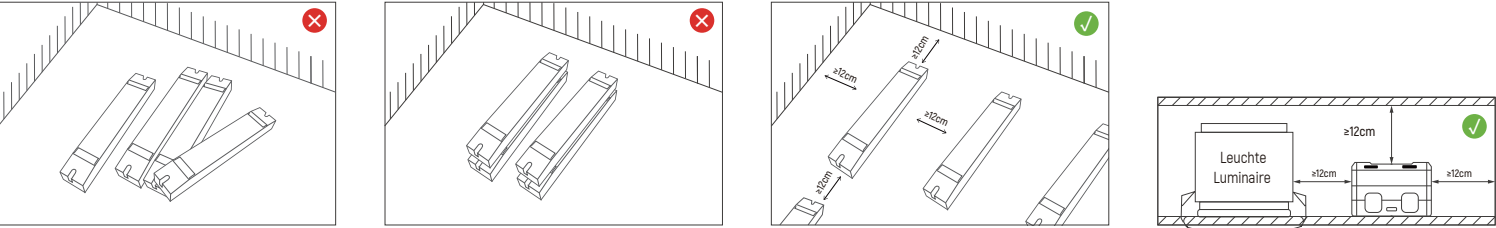


Remarks: use only open push switch (without indicator light). When using synchronous connection, the line length between each device and equipment shall not exceed 20 meters.

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



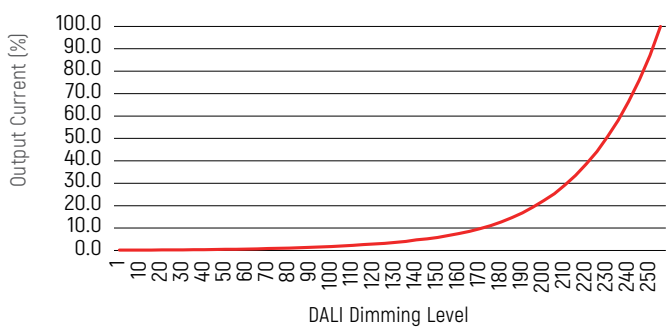
Please do not stack the products. The distance between two products should be >12cm so as not to affect heat dissipation and the lifespan of the products.

Max. quantity of drivers per miniature circuit breaker

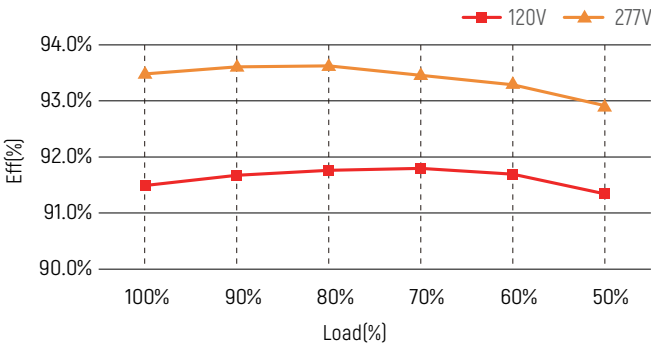
Specification item	Value	Value	Condition
Inrush current I _{peak}	50.2A (120V)	96.6A (277V)	Input Voltage120V/277V
Inrush current T _{width}	400us(120V)	430us (277V)	Input Voltage120V/277V, measured at 50% I _{peak}

MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	3pcs	1pcs	C10	4pcs	3pcs
B13	5pcs	2pcs	C13	5pcs	4pcs
B16	6pcs	2pcs	C16	7pcs	4pcs
B20	7pcs	3pcs	C20	9pcs	6pcs
			D16	7pcs	9pcs

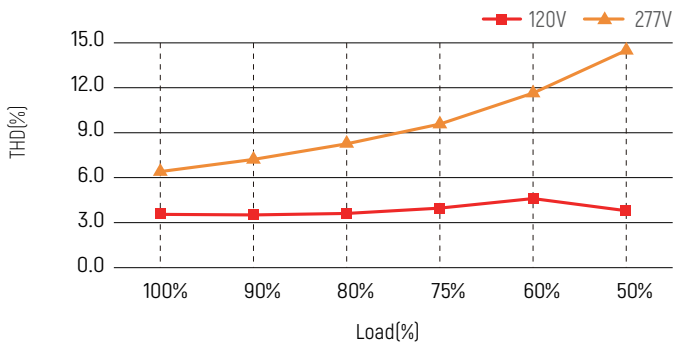
Dimming Curve



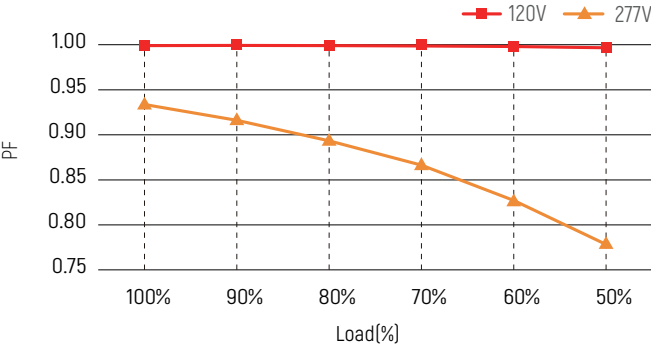
Efficiency vs Load Curve



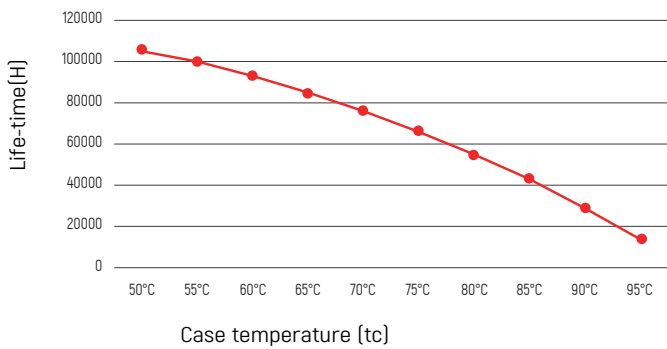
THD vs Load Curve



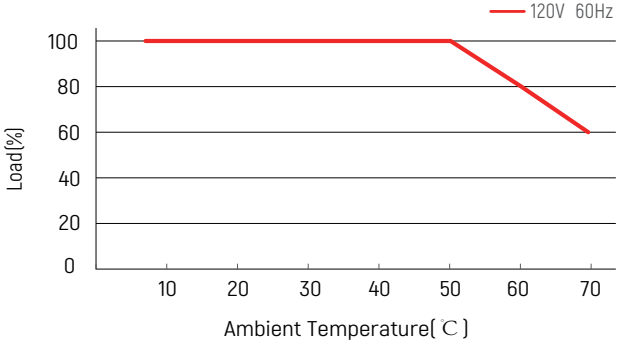
PF vs Load Curve



Life curve



Derating Curve



Cautions

This product must be installed and adjusted by a qualified professional.		
1	Confirmation of installation conditions	· Waterproof and Protection: Install in a suitable location according to the waterproof and protection requirements of the power supply. Products without waterproof function should be protected from direct sunlight and rain. When installing outdoors, please use a waterproof box for protection. · Heat dissipation requirements: The drive power supply should avoid exposure to high temperature environments. Please ensure that the working environment temperature is within the recommended range. To ensure proper heat dissipation of the drive power supply, a well ventilated area should be selected for installation. Good heat dissipation conditions can help extend product lifespan.
2	Power check	· Before use, check the product parameters and confirm that the output voltage and current of the LED power supply meet the requirements
3	Safe wiring	· Use cables that meet the specifications to ensure that the cross-section of the wire matches the requirements of the driving power supply. Solid cables typically measuring 0.75-2.5 mm², (Please refer to the silk screen printing or wiring diagram in the instruction manual for specific wire diameter requirements). · If the power supply (metal casing) is installed on a grounded lighting component or equipment, the power supply needs to be grounded. · To avoid hot swapping, power off and restart the driver before connecting the LED load.
4	Wiring confirmation	· Before power on debugging, ensure that the wiring is secure and avoid poor contact to prevent unstable current or equipment damage.
5	Repair suggestions	· If the product malfunctions, please do not repair it without authorization. If you have any questions, please contact the supplier or sales team for assistance.

※ 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:

The following situations are not covered by the free warranty or replacement service:

1. Exceeding the warranty period.
2. Damage caused by human factors such as high voltage, overload, and improper operation.
3. The appearance of the product is severely damaged or deformed.
4. Normal wear and tear or aging during regular product use.
5. Damage caused by natural disasters or force majeure factors.
6. The quality inspection label of the product is damaged (QC PASS).
7. No contract or valid invoice proof signed with EUCHIPS has been provided.

※ Remedies: Repair or replacement is the only remedy provided by EUCHIPS to the customer, and EUCHIPS shall not be liable for incidental damages arising from repair or replacement, unless within the scope of applicable law.

※ Adjustment of Warranty Terms: EUCHIPS reserves the right to modify or adjust the warranty terms, which shall be published in writing.

Revision history

Change date	Version	Item	From	To
2026.09.03	V1.0	First release		