OWP240A-1W24V



Product Feature

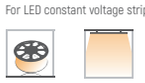
- Single channel constant voltage output, maximum output current 10A
- Lightning protection, short circuit, overcurrent, overload, metal shell
- Protection class IP67, suitable for outdoor lighting
- Dimming range 0.1%-100% dimming, smooth dimming without step sense and stroboscopic
- Life of 50,000 hours@tc85°C [185°F], 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

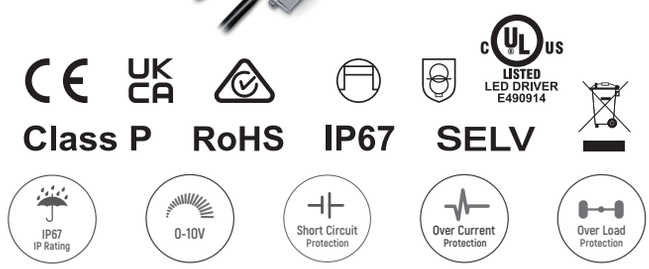
Caution/prudence

- 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



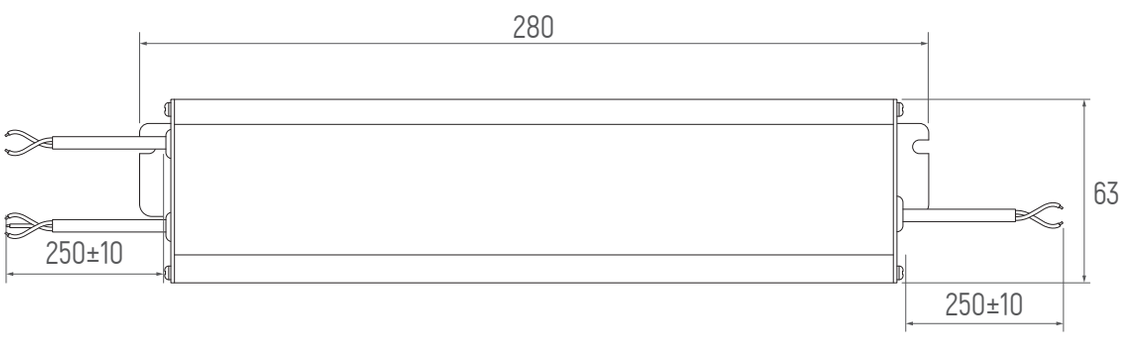


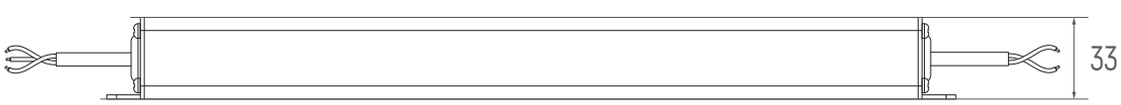
Technical Parameters

Model	OWP240A-1W24V	
Input	Input Voltage	120VAC-277VAC
	Frequency Range(Hz)	50/60Hz
	Input Current	2.5Amax@120VAC, 1.2Amax@230VAC, 0.99Amax@277VAC
	Power Factor	≥0.95@120VAC, Full load ≥0.9@277VAC, Full load
	Efficiency	≥90%@120VAC, Full load ≥93%@277VAC, Full load
	THD	≤10%@120VAC, Full load ≤10%@277VAC, Full load
	Standby power	<1.5W
	No-load power	<1.5W
	Inrush Current	Cold start,15.1A@120VAC 104us 73.2A@277VAC 164us
Output	Output Voltage	24VDC
	Voltage Accuracy	±5%
	Output Current	10A Max.
	Output Power	240W Max.
	PstLM	≤1
	SVM	≤0.4
	Dimming frequency	20KHz
	Line Regulation	±3% @Full load
	Load Regulation	±3% @Full load
	Turn on delay Time	0.75s, @230Vac (When the light begins to shine)
Function	Dimming Type	0-10V
	Dimming Range	0.1%-100% Dimming to OFF
	Dimming Curve	Logarithm
	Flicker free	Flicker free
Protection	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	/
	Over temperature	/
Safety& EMC	Surge	L-N:6KV L-N-PE 10KV
	Withstand Voltage	I/P-O/P: 3750VAC/1min/5mA I/P-PG:1500VAC/5mA O/P-PG:500VAC/5mA I/P-0-10V(Signal port):1500Vac/1min/<5mA
	Safety Standards	CCC (China) GB/T 19510.1，GB/T 19510.213 TUV (Germany) EN 61347-1，EN 61347-2-13，EN 62493
		CB (CB member states) IEC61347-1，IEC61347-2-13 CE (European Union) EN 61347-1，EN 61347-2-13
		RCM (Australia) AS/NZS 61347-1, AS/NZS 61347-2-13 ENEC (Europe) EN 62384
		UL UL8750:2015 Ed.2+R:07Dec2022, UL1310, CSA-C22.2 No. 250.13:2022 Ed.5
	EMC Emission	CCC (China) GB/T 17743，GB/T 17625.1
		CE (European Union) EN 55015，EN 61000-3-2，EN 61000-3-3，EN 61547
		RCM (Australia) AS/NZS CISPR 15, AS/NZS 61000
		FCC Part 15 Class B(120V)/Class A(277V)
	EMC Immunity	EN 61547; EN 61000-4-2, 3, 4, 5, 6, 8, 11

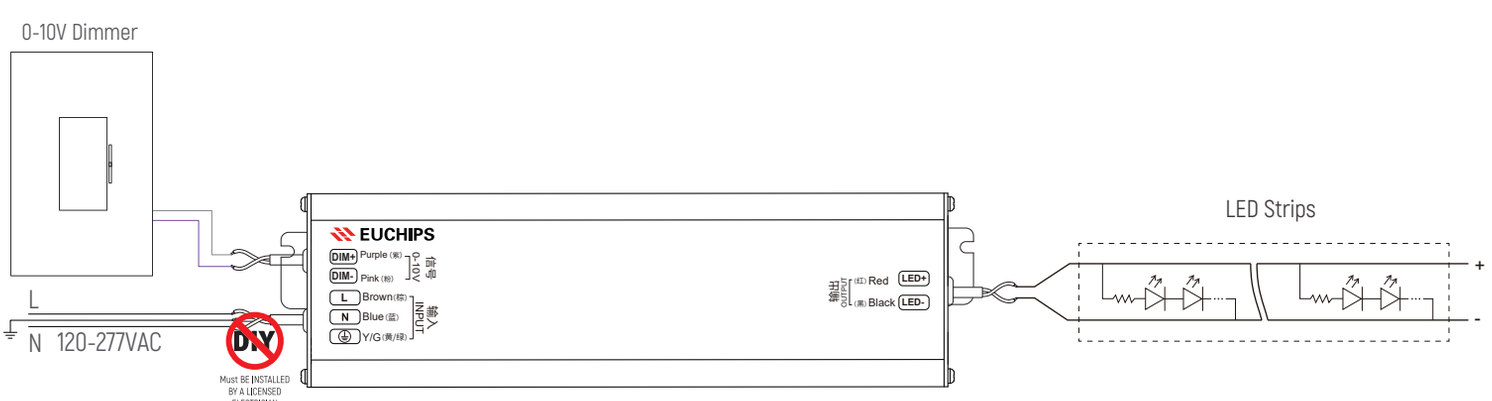
Environment	Working Temp.	-20°C...+55°C [-4°F~131°F]
	Storage Temp.	-40°C...+90°C [-40°F~194°F]
	Storage Humidity	20-90%RH (No condensation)
Others	RoHS	Comply with 2015/863/EU
	tc	85°C [185°F] for safety & life
	material	Metal
	IP Rating	IP67
	Lifetime	50,000h@tc:85°C [185°F]
	Warranty Condition	5years
	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 ℃ without any special instructions.	

Dimension(mm)

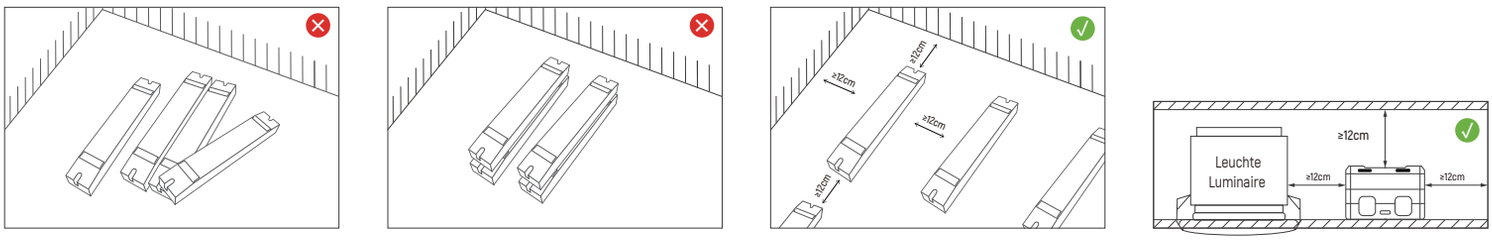




Wiring Diagram



Installation Precautions



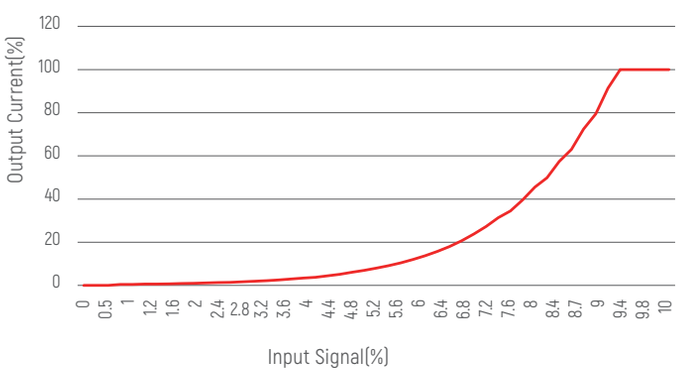
Please do not stack the products. The distance between two products should be>12cm so as not to affect heat dissipation and the lifespan of the products.

Max. quantity of drivers per miniature circuit breaker

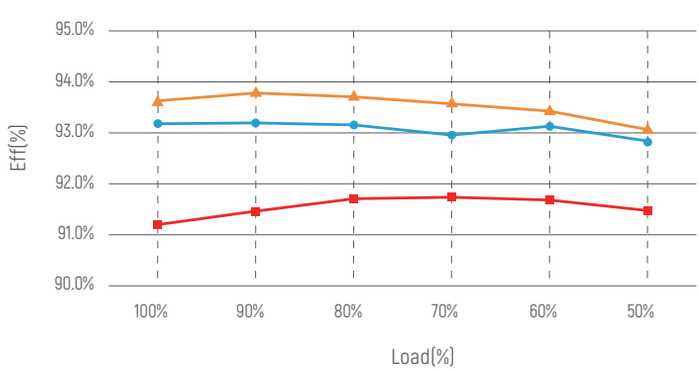
Specification item	Value	Value	Condition
Inrush current Ipeak	15.1A (120V)	73.2A (277V)	Input Voltage120V/277V
Inrush current Twidth	104us (120V)	164us (277V)	Input Voltage120V/277V, measured at 50% Ipeak

MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	3pcs	6pcs	C10	3pcs	6pcs
B13	4pcs	8pcs	C13	4pcs	8pcs
B16	5pcs	11pcs	C16	5pcs	11pcs
B20	6pcs	13pcs	C20	6pcs	13pcs
			D16	5pcs	11pcs

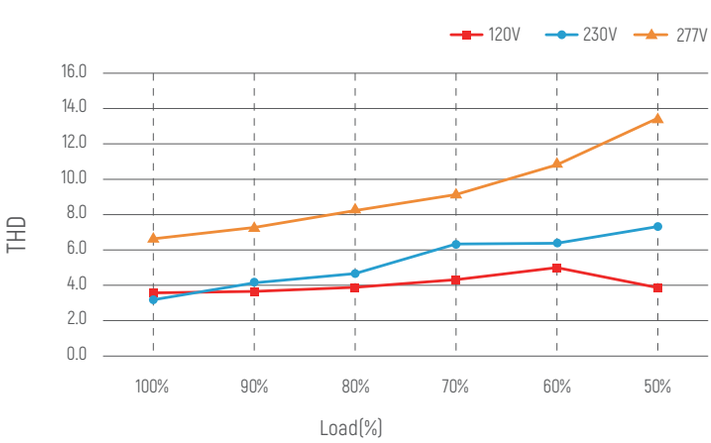
0-10V Dimming Curve



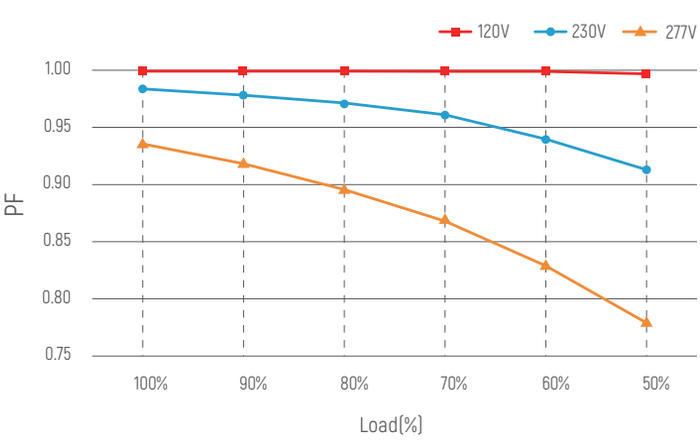
Efficiency vs Load Curve



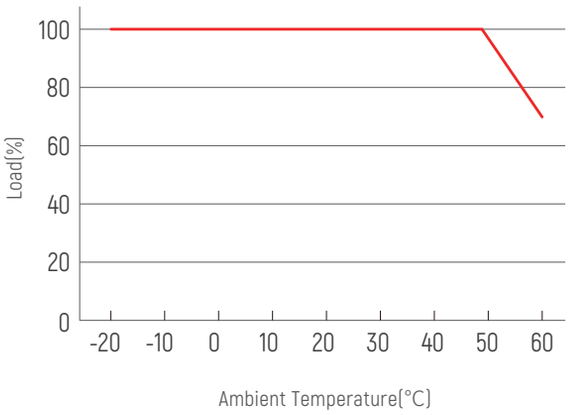
THD vs Load Curve



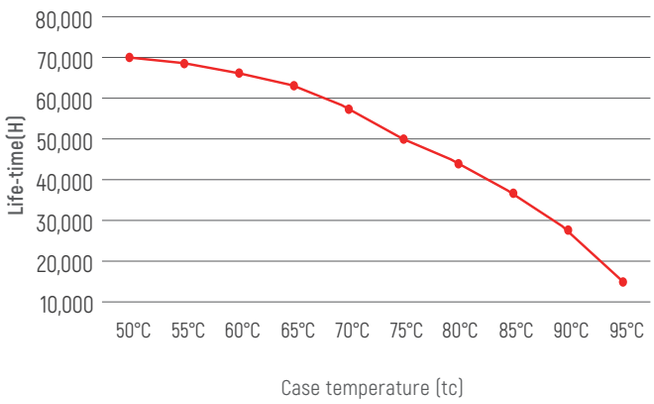
PF vs Load Curve



Derating Curve



Life-time vs. case temperature



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 mm ^{2}, (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.