

OWP75A-1W24V

Product Feature

- Single channel constant voltage output, maximum output current 3.125A
- Lightning protection, short circuit, overvoltage, 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, 5 years warranty
- Customizable dimming curve
- Wide voltage input with active PFC, full power output
- Suitable for LED constant voltage lamps, lamp strips, lamp strips, etc

Application

For LED constant voltage strip light only



LED Strips



LED Tube

RoHS



CE



IP67

SELV

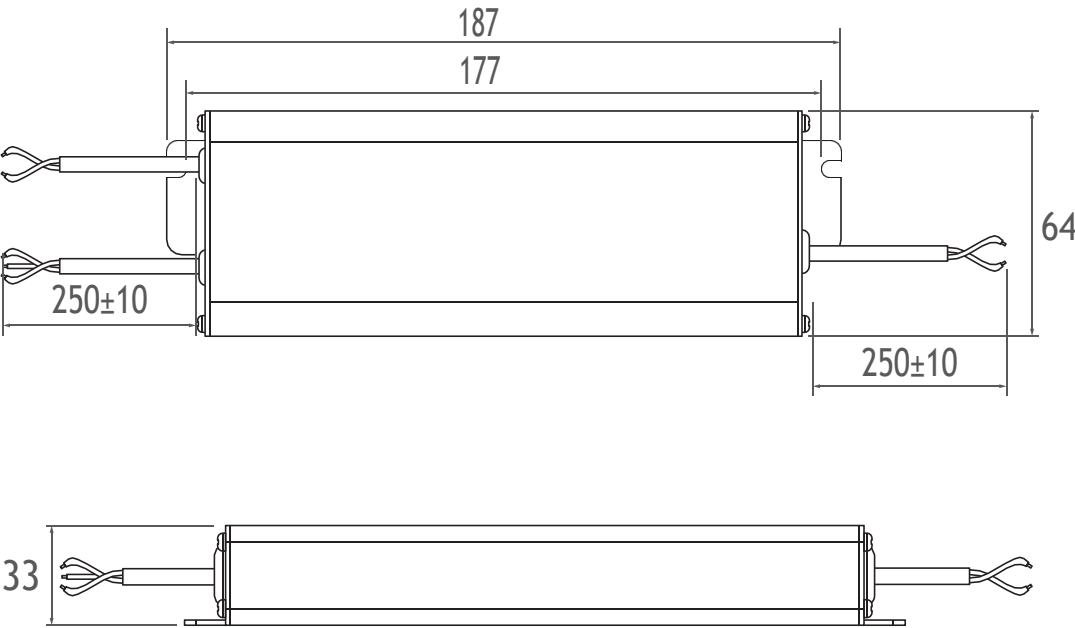


Technical Parameters

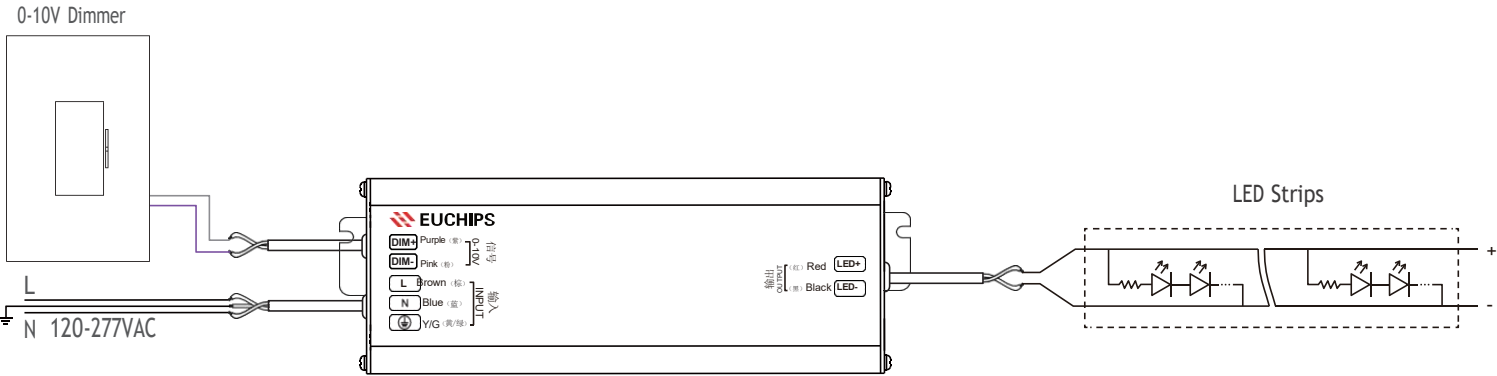
Model	OWP75A-1W24V				
Input	Input Voltage	120VAC-277VAC			
	Frequency Range(Hz)	50/60Hz			
	Input Current	0.9Amax@120VAC 0.4Amax@277VAC			
	Power Factor	≥0.95@120VAC, Full load ≥0.95@277VAC, Full load			
	Efficiency	≥87%@120VAC, Full load ≥89%@277VAC, Full load			
	THD	≤10%@230VAC, Full load ≤10%@277VAC, Full load			
	Standby power	<0.5W			
	No-load power	<1W			
	Inrush Current	Cold start,16.8A@120VAC 236us 68A@277VAC 156us			
Output	Output Voltage	24VDC			
	Voltage Accuracy	±5%			
	Output Current	3.125A Max.			
	Current Accuracy	/			
	Output Power	75W Max.			
	Output Power Range	0W-75W			
	PstLM	≤1			
	SVM	≤0.4			
	Dimming frequency	20KHz			
	Line Regulation	±1% @Full load			
	Load Regulation	±1% @Full load			
	Turn on delay Time	0.75s, at230Vac (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	Hiccups, troubleshooting after self-recovery			
	Over Current	/			
	Over load	Load current more than 130% reduce current burp protection, troubleshooting normal output			
	Over Voltage	/			
	Over temperature	/			
Safety& EMC	Surge	L-N 6KV L-PE 10KV N-PE 10KV			
	Withstand Voltage	I/P-O/P: 3000VAC/1min/5mA I/P-PG:1500VAC/5mA O/P-PG:500VAC/5mA I/P-O-10V(Signal port):500Vac/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
	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		
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547			

Environment	Working Temp.	-20℃~50℃
	Storage Temp.	-40℃~85℃
	Storage Humidity	20-90%RH (No condensation)
Others	RoHS	Comply with 2011/65/EU
	tc	75℃
	material	Metal
	IP Rating	IP67
	Lifetime	50,000h@tc:75℃
	Warranty Condition	5years
	Switch Cycle	25,000times
	Body size	187*64*33mm (L*W*H)
	Packing(weight)	Net weight: 630g±5%/PCS; 20PCS/Carton; 13kg±5%/Carton; Carton Size: 340*226*200mm(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.	

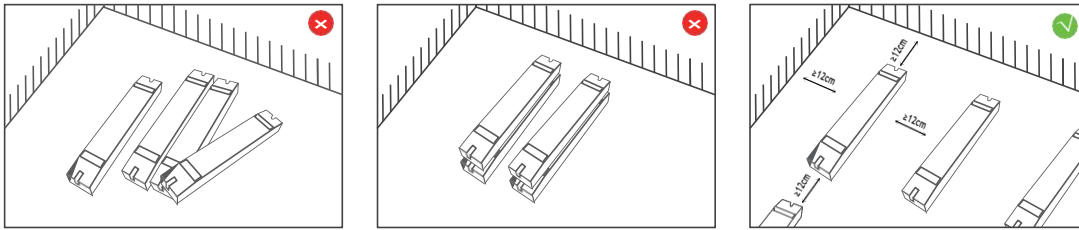
Dimension(mm)



Wiring Diagram



Installation Precautions



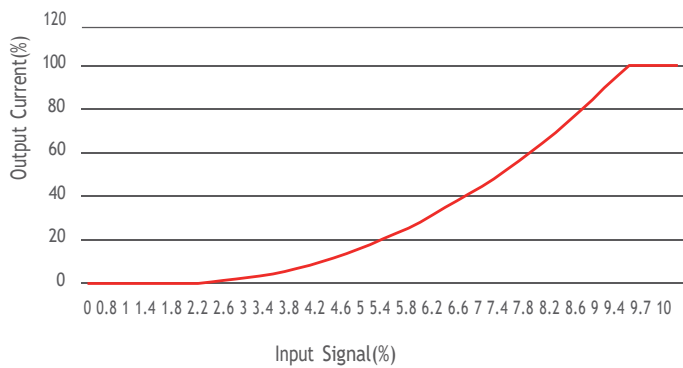
Please do not stack the products. The distance between two products should be $>12\text{cm}$ so as not to affect heat dissipation and the lifespan of the products.

Max. quantity of drivers per miniature circuit breaker

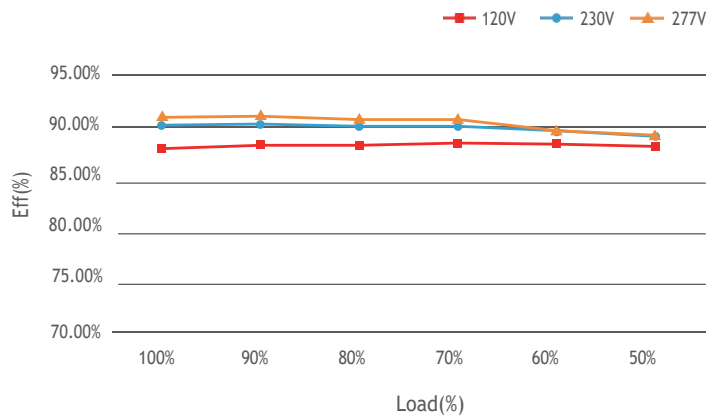
Specification item	Value	Value	Condition
Inrush current I_{peak}	16.8A (120V)	68A (277V)	Input Voltage 120V/277V
Inrush current T_{width}	236 μs (120V)	156 μs (277V)	Input Voltage 120V/277V, measured to 50% I_{peak}

MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	11pcs	7pcs	C10	11pcs	13pcs
B13	14pcs	10pcs	C13	14pcs	17pcs
B16	17pcs	12pcs	C16	17pcs	20pcs
B20	22pcs	15pcs	C20	22pcs	26pcs
			D16	17pcs	40pcs

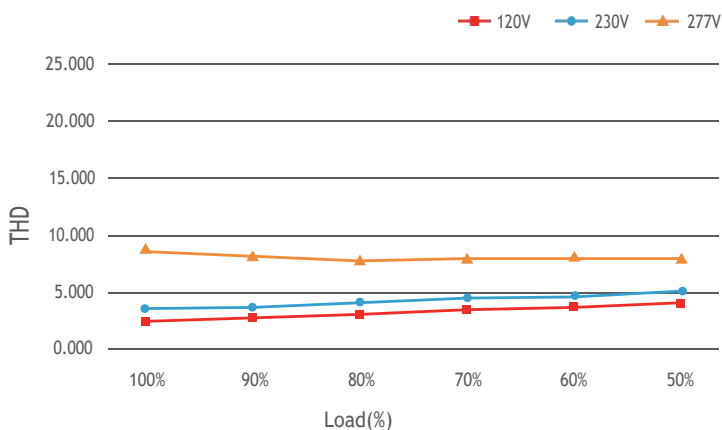
0-10V Dimming Curve



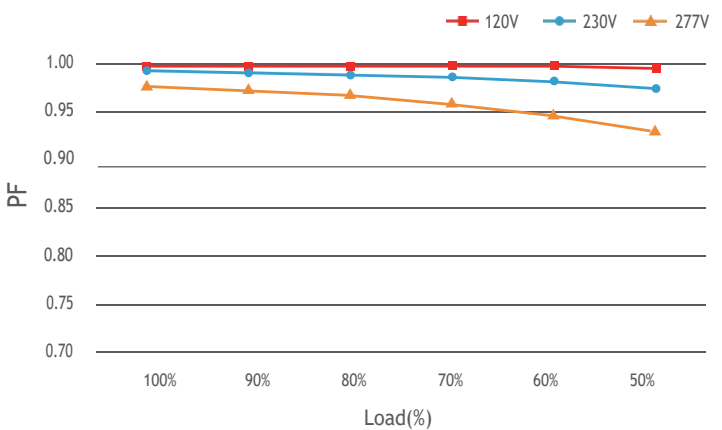
Efficiency vs Load Curve



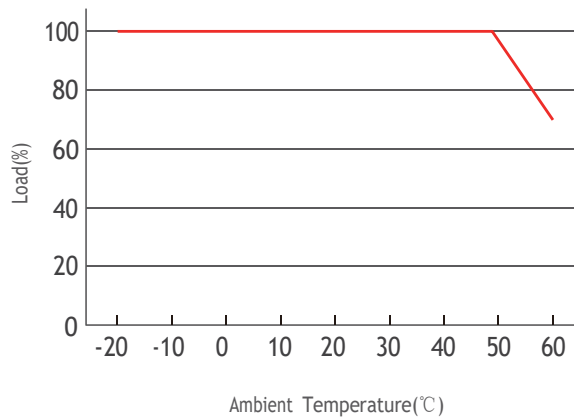
THD vs Load Curve



PF vs Load Curve



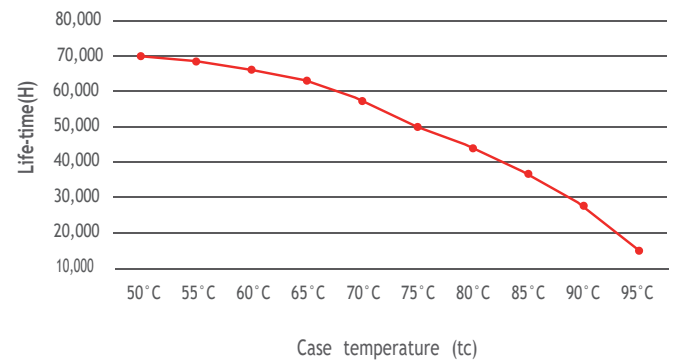
Derating Curve



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.



Cautions

This product must be installed and adjusted by a qualified professional.		
1	Confirmation of installation conditions	<ul style="list-style-type: none"> · 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	<ul style="list-style-type: none"> · 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	<ul style="list-style-type: none"> · 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	<ul style="list-style-type: none"> · Before power on debugging, ensure that the wiring is secure and avoid poor contact to prevent unstable current or equipment damage.
5	Repair suggestions	<ul style="list-style-type: none"> · 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.