WEUCHIPS

OWP320A-1W24V

Product Feature

- · Single channel constant voltage output, maximum output current 13.33A
- · 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, 5 years warranty
- · Customizable dimming curve
- \cdot Wide voltage input with active PFC, full power output
- \cdot Suitable for LED constant voltage lamps, lamp strips, lamp strips, etc



IP67

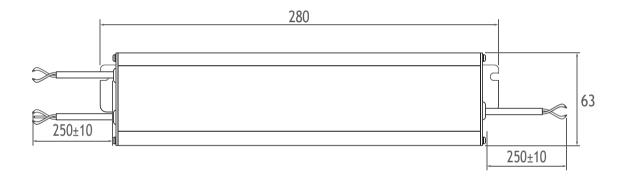


Technical Parameters

Model	OWP320A-1W24V	OWP320A-1W24V					
	Input Voltage	120VAC-277VAC					
	Frequency Range(Hz)	50/60Hz					
	Input Current	3.15Amax@120VAC 1.45Amax@277VAC					
	Power Factor	≥0.95@120VAC, Full load ≥0.95@277VAC, Full load					
Input	Efficiency	≥90%@120VAC, Full load ≥93%@277VAC, Full load					
mpac	THD	≤10%@230VAC, 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 Voltage	24VDC					
	Voltage Accuracy	±5%					
	Output Current	13.33A Max.					
	Current Accuracy	1					
	Output Power	320W Max.					
0.1.1	Output Power Range	0W-320W					
Output	PstLM	12					
	SVM	≤0.4					
	Dimming frequency	20KHz					
	Line Regulation	±3% @Full load					
	Load Regulation	±3% @Full load					
	Turn on delay Time	0.75s, at230Vac (When the light begins to shine)					
	Dimming Type	0-10V					
Function	Dimming Range	0.1%-100% Dimming to OFF					
Tunction	Dimming Curve	Logarithm					
	Flicker free	Flicker free					
	Short circuit	Close the output and recover after troubleshooting					
	Over Current	Reduce current burp protection, self-recovery after troubleshooting					
Protection	Over load	Reduce current burp protection, self-recovery after troubleshooting					
	Over Voltage	1					
	Over temperature	1					
	Surge	L-N 6KV L-PE 10KV N-PE 10KV					
	Withstand Voltage	I/P-O/P: 3750VAC/1min/5mA I/P-PG:1500VAC/5mA 0/P-PG:500VAC/5mA I/P-0-10V(Signal port):1500Vac/1min/<5mA					
Safety& EMC	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 · EN61000-3-3 · EN61547					
		RCM (Australia) EN55015 EN61000-3-2 EN61000-3-3 EN615047					
	EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547					
	Encernmentey						

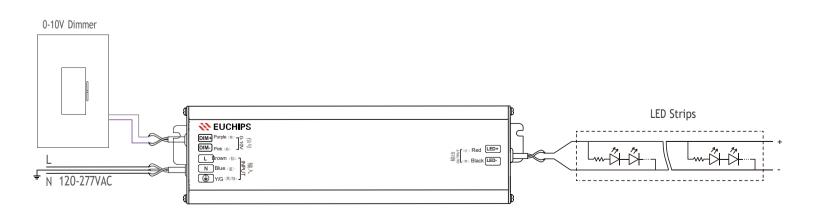
Environment	Working Temp.	-20°C ~50°C [-4° F-122° F]	
	Storage Temp.	-40°C -90°C [-40°F-194°F]	
	Storage Humidity	20-90%RH (No condensation)	
	RoHS	Comply with 2015/863/EU	
	tc	90°C [194°F]	
	material	Metal	
	IP Rating	IP67	
Others	Lifetime	50,000h@tc:90°C [194°F]	
Others	Warranty Condition	5years	
	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 lnch)(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 $^\circ$ C without any special instructions.		

Dimension(mm)



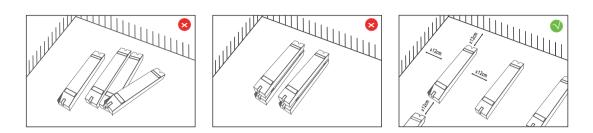


Wiring Diagram



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Installation Precautions



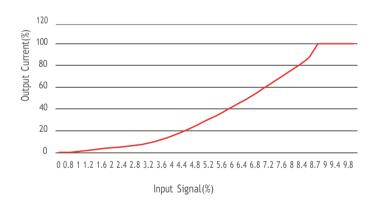
Please do not stack the products. The distance between two products should be>12cm so as not to affect heat dissipation and the lifespan of the products.

Max. quantity of drivers per miniature circuit breaker

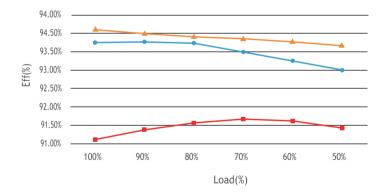
Specification item	Value	Value	Condition
Inrush current Ipeak	15.1A (120V)	73.2A (277V)	Input Voltage120V/277V
Inrush current Twidth	104us (120V)	164us (277V)	Input Voltage120V/277V, measured ta 50% Ipeak

МСВ	Input Voltage 120V Drivers	Input Voltage 277V Drivers	МСВ	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

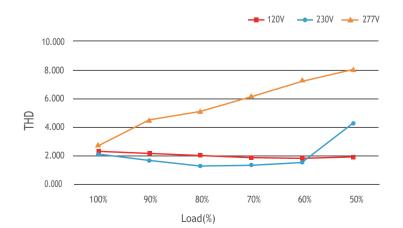
0-10V Dimming Curve



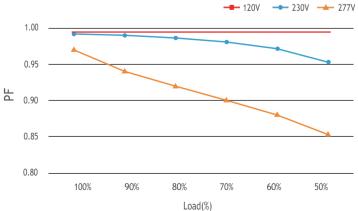




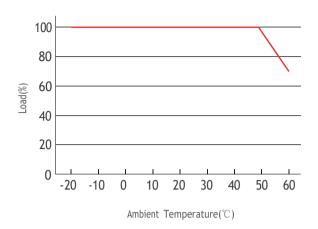
THD vs Load Curve



PF vs Load Curve



Derating Curve

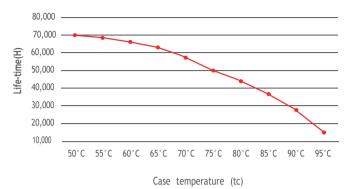


Life-time vs. case temperature

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

Thi	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.