

UWP150A-1M36V
Summary

UWP150A-1M36V is a constant voltage output LED dimming driver. This driver can be controlled externally, The 0-10V active signal, adjustable resistor, and PWM signal are used to achieve smooth dimming effects.

Product Feature

- Single-channel constant voltage DC 36V output
- Wide voltage input range of 100-240V~
- 0-10V dimming
- Dimming range of 1-100%, with a smooth dimming curve, no flickering, and an efficiency of up to 89%
- When the signal is floating, it can be used as a power supply with full output
- Short circuit protection, overload protection, overcurrent protection
- With a waterproof rating of IP67, it is suitable for various LED constant voltage luminaires



CE RoHS

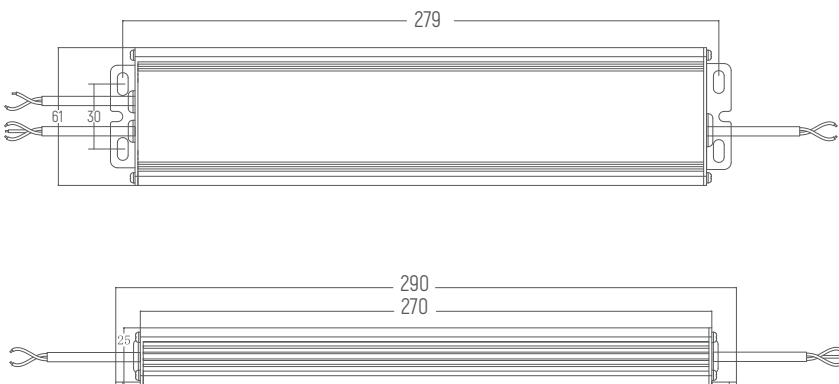
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Technical Parameters

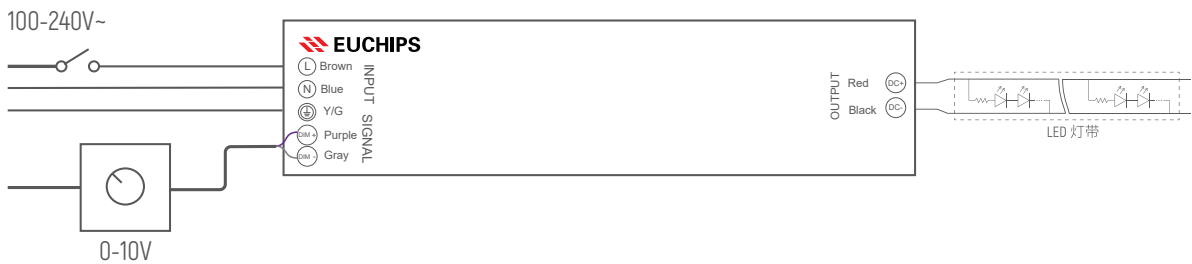
Model	UWP150A-1M36V		
Input	Rated supply voltage	100-240VAC	
	Input voltage range	90-264VAC	
	Input voltage range (DC)	180-280VDC	
	Input Current	0.75max @ 230VAC	
	Input Frequency range	50/60Hz	
	Inrush Current	Cold start, 70A@230VAC 300us	
	Efficiency	>89%@230VAC, Full load	
	THD	<10%@230VAC, Full load	
	Power factor	>0.95@230VAC, Full load	
	Standby power	<2W@230VAC	
	No load power	<2W@230VAC	
	Turn on time	<0.75s, @230Vac (time-to-first-light)	
Output	Current/Voltage/Power	4.17A/36VDC/150W	
	Voltage Accuracy	±3%	
	Output Channel	1	
	Load Regulation	±3%	
	Line Regulation	±3%	
	Current Overshoot	5%	
	Output frequency	20K Hz	
	No load output voltage	37.1VDC MAX	
Protection	Short-circuit	Shut down output, Auto-recovery after Fault Clearance	
	Over Current	Hiccup Protection, Auto-recovery after Fault Clearance	
	Overload	Load power ≥120% protection, Current Drop, Auto-recovery after Fault Clearance	
Function	Dimming Type	1-10V	
	Dimming Range	0.1%-100%	
	Dimming Curve	Logarithm curve	
	Flicker free	Flicker free	
Safety& EMC	Surge	L-N: 2000VAC, L-N-PG: 4000VAC, Combine wave	
	Withstand Voltage	I/P-O/P:3750Vac/1min/<5mA, I/P-PG:1500Vac/1min/<5mA, O/P-PG:500Vac/1min/<5mA, O/P-DIM(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	ENEC (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		

Others	RoHS	RoHS Directive 2011/65/EU, directives (EU)2015/863
	Working Temp.	-20 C ~50 C
	Storage Temp. Humidity	-40 C ~85 C, 20-90%RH
	tc	90 C for safety & 85 C for life
	Lifetime	50,000h@tc:85 C
	Warranty Condition	5 years
	Switch Cycle	>25,000 times
	IP Rating	IP67
	Material	Metal
	Packing(weight)	Net weight: 820g(1.80lb) \pm 5%/PCS; 15PCS/Carton; 12.8kg(28.2 lb) \pm 5%/Carton; Carton Size: 333*269*173mm(13.11*10.5*6.81Inch)(L*W*H)

DALI



Dimension(mm)

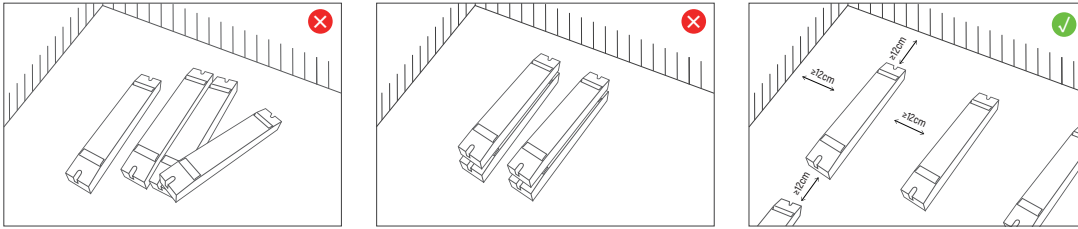


Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Condition
Inrush current I_{peak}	70A	Input Voltage 230VAC
Inrush current T_{width}	300us	Input Voltage 230VAC, measured t_a 50% I_{peak}

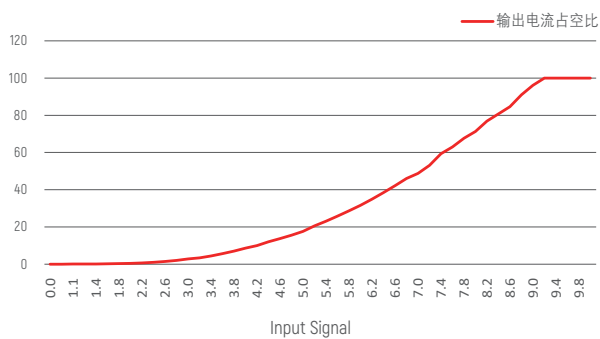
MCB	Input Voltage 230V Drivers	MCB	Input Voltage 230V Drivers
B10	3pcs	C10	6pcs
B13	4pcs	C13	8pcs
B16	6pcs	C16	10pcs
B20	7pcs	C20	12pcs
		D16	20pcs

Installation Precautions

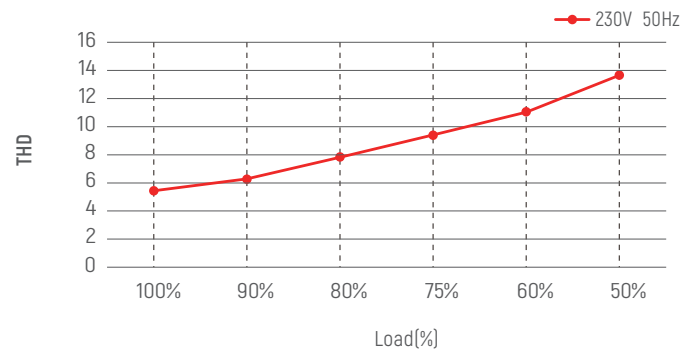


Please do not stack the products. The distance between two products should be >12cm so as not to affect heat dissipation and the lifespan of the products.

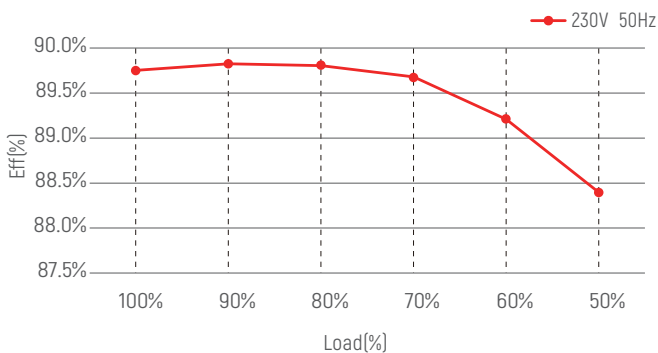
DALI Dimming Curve



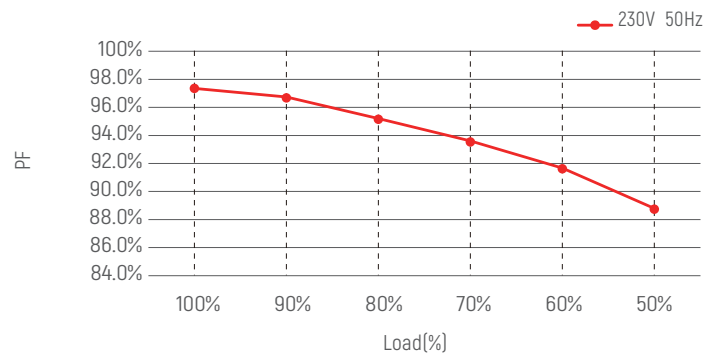
THD vs Load Curve



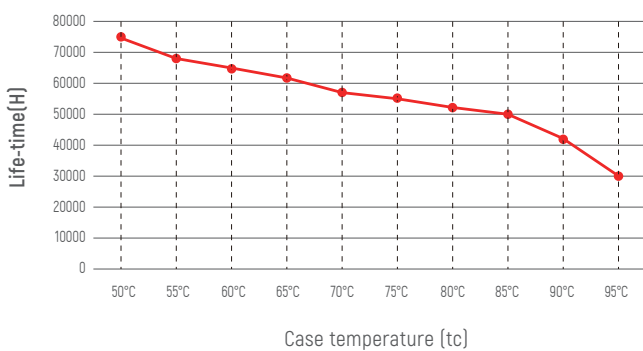
Efficiency vs Load Curve



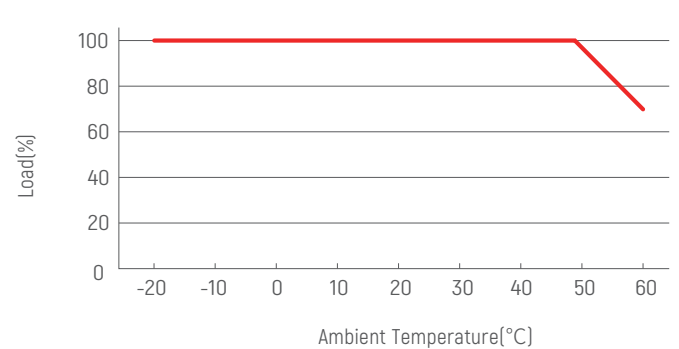
PF vs Load Curve



Life-time vs. case temperature



Derating Curve



The life-time of the led driver is shown in the figure above (calculated based on the 90% survival rate).

The relation of t_c to t_a 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.