

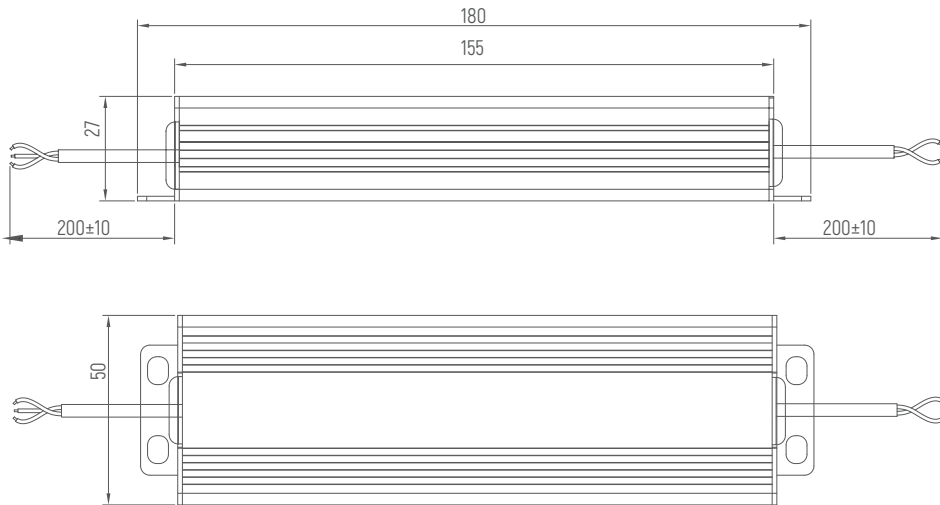
UWF96-1B24V
Product Feature

- Wide voltage input, full power output
- Metal shell design enhances heat dissipation performance
- Adopting an isolated design, it is safe and reliable
- Equipped with protection functions such as over-temperature, short circuit, over-current, and overload protection
- Protection level up to IP67
- UL Class 2 rating (SAM manual)
- 5-year warranty

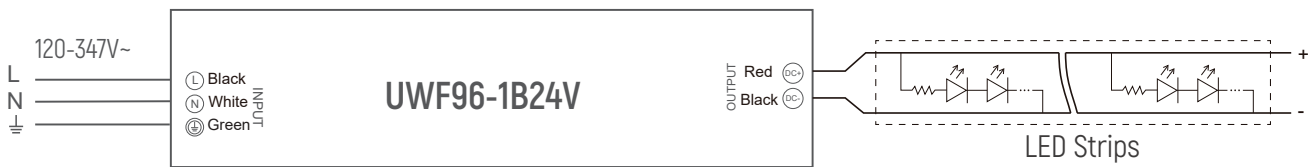

Technical Parameters

Model	UWF96-1B24V	
Input	Rated supply voltage	120-347VAC
	Voltage range	108-380VAC
	Voltage range (DC)	170-490VDC
	Input Current	1.2max@120VAC, 0.55max@230VAC, 0.4max@347VAC
	Frequency range(Hz)	50/60Hz
	Inrush Current(max)	Cold start , 50A@120VAC 600us, 50A@230VAC 600us, 70A@347VAC 600us
	Efficiency	>84%@120VAC, >86%@230VAC, >86%@347VAC, Full load
	THD	<10%@120VAC, <10%@230VAC, <10%@347VAC, Full load
	Power factor	>0.95@120VAC, >0.95@230VAC, >0.95@347VAC, Full load
	No load power	<0.5W@120VAC, <0.5W@230VAC, <1W@347VAC
	Turn on time	<2.5s, @120Vac (When the lights begin to shine)
	Output	Output Current
Output Voltage		24VDC
Voltage Accuracy		±5%
Output Power		96W
Output Channel		1
Load Regulation		±5%
Line Regulation		±5%
Current Overshoot		5%
No load output voltage	25.2VDC MAX	
Protection	Short-circuit	Shut down output, Auto-recovery after Fault Clearance
	Over Current	Hiccup Protection, Auto-recovery after Fault Clearance
	Overload	Protection for loads with power ≤100W; Hiccup Protection, Auto-recovery after Fault Clearance
Safety	Surge	L-N:2KV
	Withstand Voltage	I/P-O/P:2000VAC/5mA I/P-PG:1500VAC/5mA O/P-PG:500VAC/5mA
	Safety standards	UL8750 & UL1310
Others	RoHS	RoHS Directive 2011/65/EU, directives (EU)2015/863
	Working Temp	-40 C ~50 C
	Storage Temp, Humidity	-40 C ~85 C , 20-90%RH
	tc	90 C for safety & life
	Lifetime	50,000h@tc:90 C
	Warranty Condition	5 years
	Switch Cycle	>25,000times
	IP Rating	IP67
	Material	Metal
	Dimension	180*50*27mm (L*W*H)
Packing(weight)	Net weight: 410 g±5%/PCS; 30PCS/ Carton; 12.8 kg±5%/Carton; Carton Size: 365*215*200mm (L*W*H)	

Dimension(mm)



Wiring Diagram

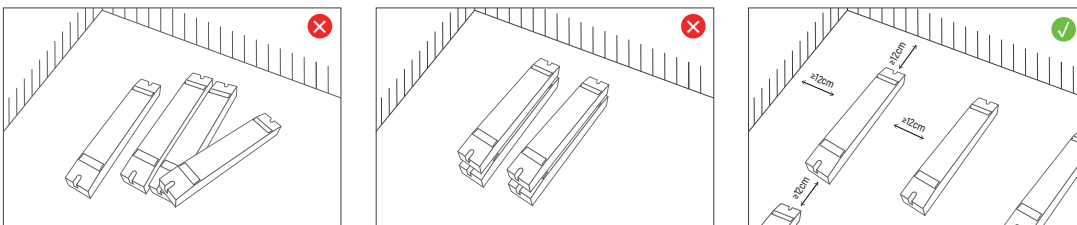


Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Condition
Inrush current I_{peak}	50A	Input Voltage 230VAC
Inrush current T_{width}	600us	Input Voltage 230VAC, measured to 50% I_{peak}

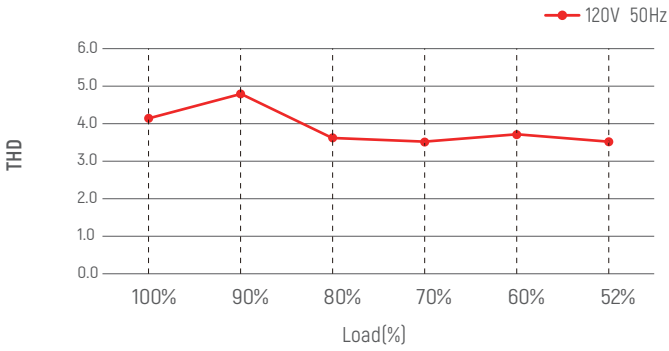
MCB	Input Voltage 230V Drivers	MCB	Input Voltage 230V Drivers
B10	2pcs	C10	4pcs
B13	3pcs	C13	5pcs
B16	4pcs	C16	6pcs
B20	5pcs	C20	8pcs
		D16	13pcs

Installation Precautions

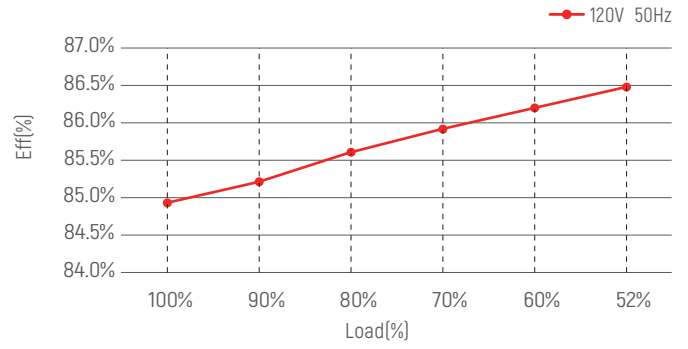


Please do not stack the products. The distance between two products should be >12cm so as not to affect heat dissipation and the lifespan of the products.

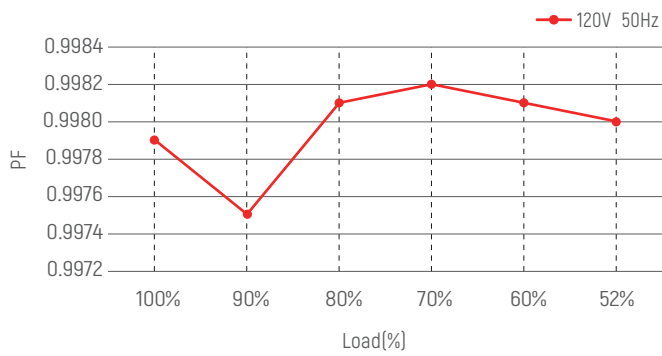
THD vs Load Curve



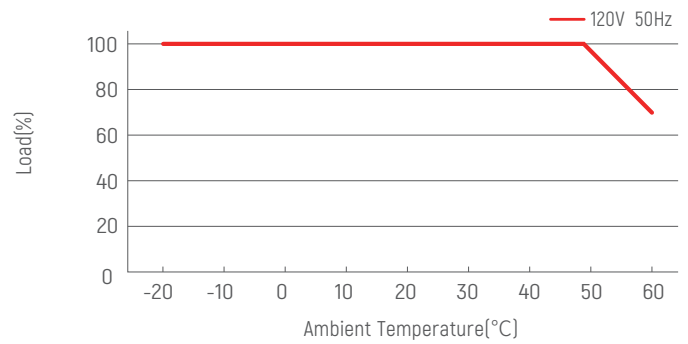
Efficiency vs Load Curve



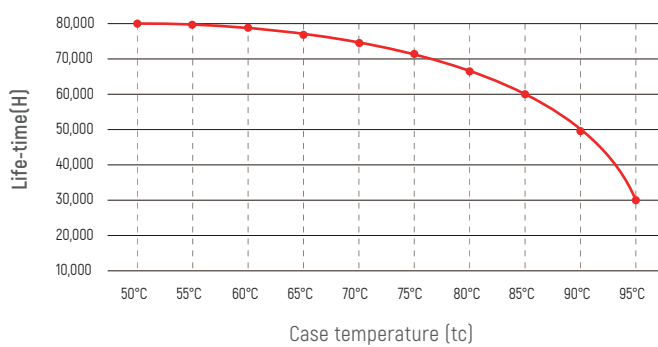
PF vs Load Curve



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 to 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.