MUP150AT-1W24V-BW

Product Features

· Three-channel constant voltage output, per channel 6.25A Max
· Input Voltage Range 108-305Vac
· Support 0/1-10V ,Potentiometer,PWM,Triac/ELV Dimming
· TRIAC and ELV dimming at 120 Vac only
· 0-10V Dimming range of 0.1-100%, and dimming effect smooth, flicker free
· 100% output when no dimming signal input, can be used as normal power supply
· Protection: Overload; short circuit; Overcurrent
· Safety according to UL8750 &UL 1310
· Suitable for Dry , Damp & Wet Locations

Application

LED Strip Light

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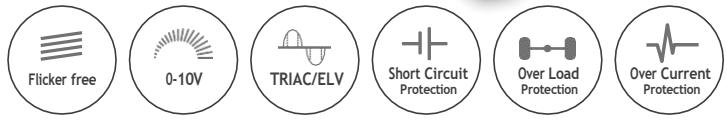
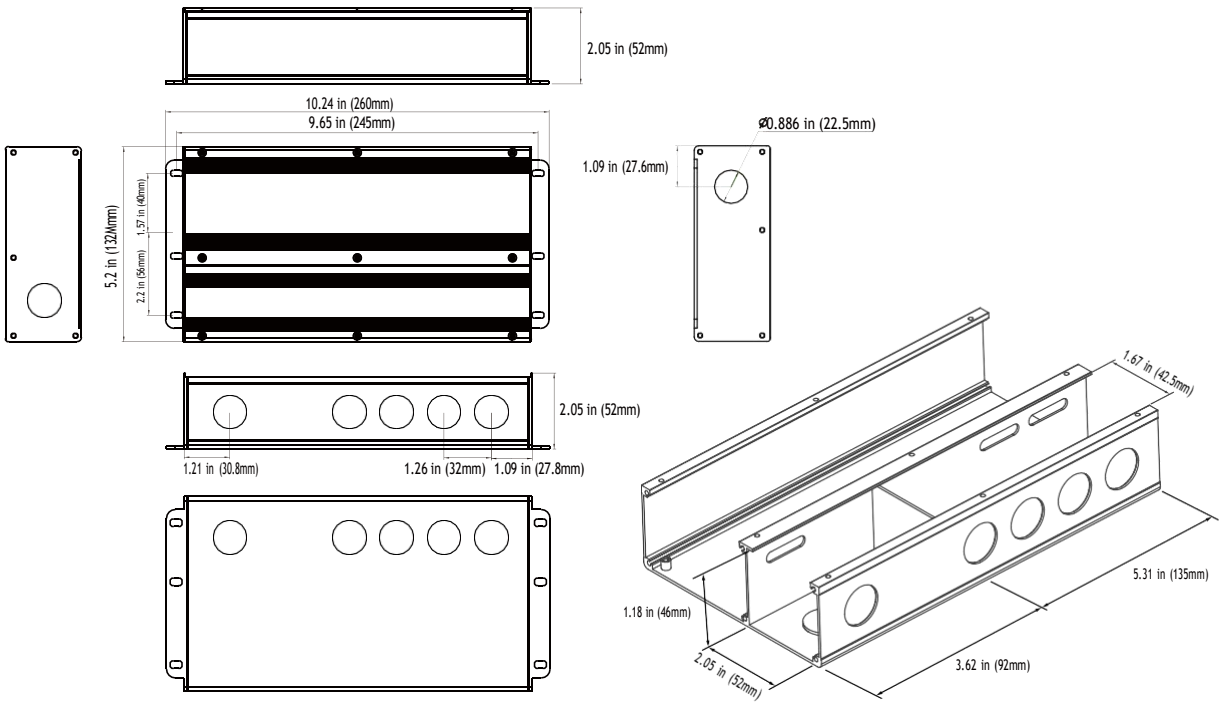
LISTED
LED DRIVER
E490914



Technical Paramaters

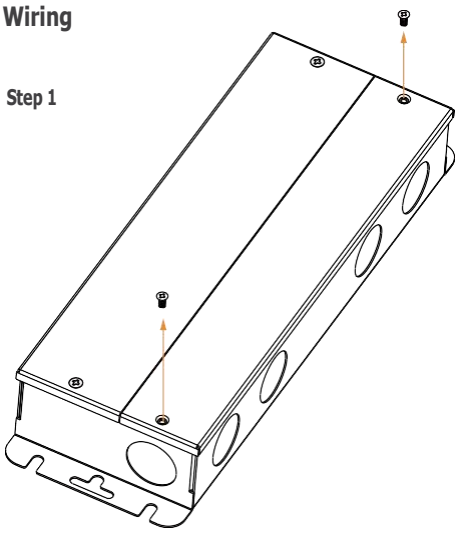
Model	MUP150AT-1W24V-BW	
Input	Efficiency	≥89%@120VAC, full load
	Voltage	120VAC-277VAC
	Frequency Range(Hz)	50/60Hz
	AC Current(max)	1.5Amax@120VAC 0.8Amax @230VAC 0.7Amax @277VAC
	PF	≥0.95@120VAC, ≥0.95@277VAC, full load
	THD	<10%@120VAC, <10%@277VAC, full load
	Inrush Current(max)	Cold start, 40A@120VAC 500us, 80A@277VAC 200us
	Standby power	<4W@120VAC
	No load power	<4W@120VAC
	Turn on delay Time	<0.75s, @120Vac (When the light begins to shine)
Output	Output Current	6.25A
	Output Voltage	24VDC
	Voltage Range	24VDC ±3%
	Output Power	150W
	Output Channel	1
	Power limit	120%
	Ripple	≤720mV
	PWM Frequency	20K Hz
Function	Dimming Type	0/1-10V ,Potentiometer,PWM,Triac/ELV(@120VAC 60Hz)
	Dimming Range	0.1%-100%(0-10V) 1%-100%(TRIAC/ELV)
	Dimming curve	Logarithm (for 0-10V & Tiac/ELV)
	Flicker	Flicker free
Protection	Short Circuit Protection	Shut down output, Auto-recovery after Fault Clearance
	Overload Protection	Hiccup Protection, Auto-recovery after Fault Clearance
	Overcurrent Protection	Hiccup Protection, Auto-recovery after Fault Clearance
Safety&EMC	Surge	L-N: 2.5kV L-N-PG:2.5kV
	Withstand Voltage	I/P-O/P: 2000Vac/1min/<5mA I/P-PG:1500Vac/1min/<5mA O/P-PG:500Vac/1min/<5mA O/P-DIM(Signal port):500Vac/1min/<5mA
	Safety standards	UL8750 UL1310 CSA25013.CSA Class P
	EMC Eission	FCC PART15B
	EMC Immunity	IEC 61000-4-2-3-4-5-6-8-11
	Insulation Resisance	5MΩ
Others	Working Temp.	(-20~+60) ℃ [-4°F~140°F]
	Storage Temp., Humidity	(-40~+90)℃ [-40°F~194°F]
	tc	85℃ [185°F]
	Material	Metal
	IP Rating	IP65
	Lifetime	50,000h@tc:80℃ [176°F]
	Warranty Condition	5 years
	Switch Cycle	25,000 times
	Packing(weight)	Net weight: 1700g (3.75 lb)±5%/PCS; 10PCS/Carton;17.5kg(38.58 lb)±5%/Carton; Carton Size: 322*279*302mm(12.68*10.98*11.98 Inch)(L*W*H)
	Dimension	260*132*52mm (10.24*5.2*2.05 Inch) (L*W*H)

Dimension(mm)

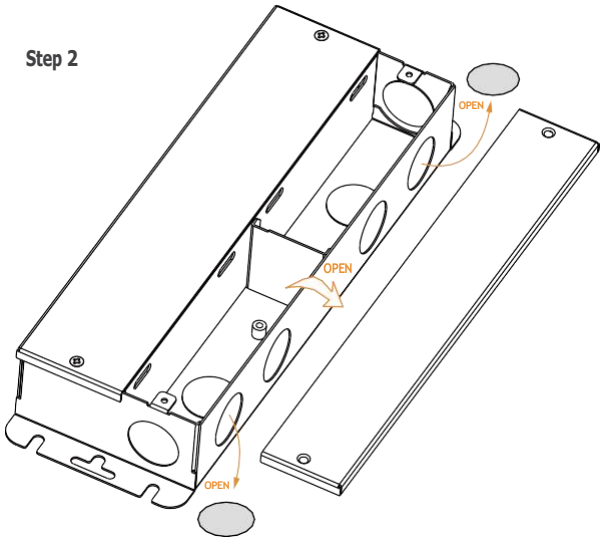


Wiring

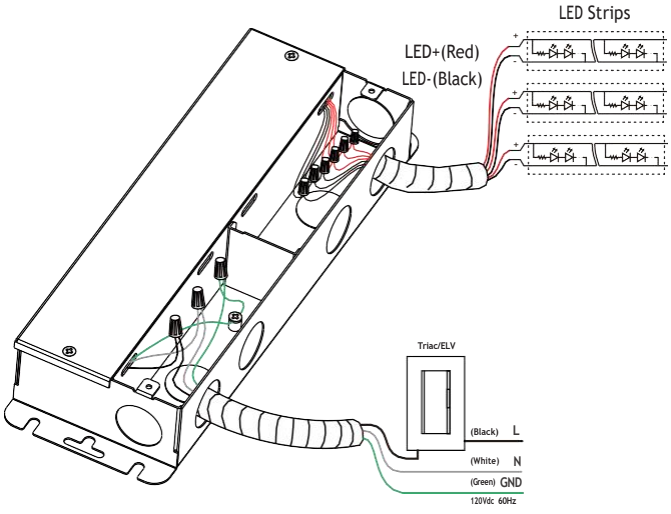
Step 1



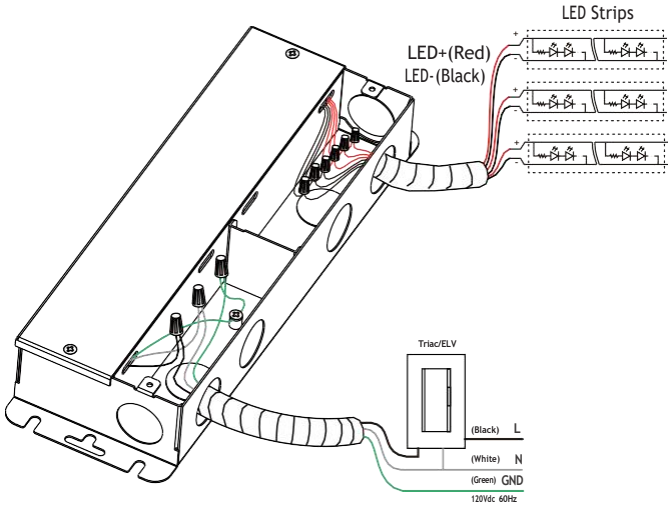
Step 2



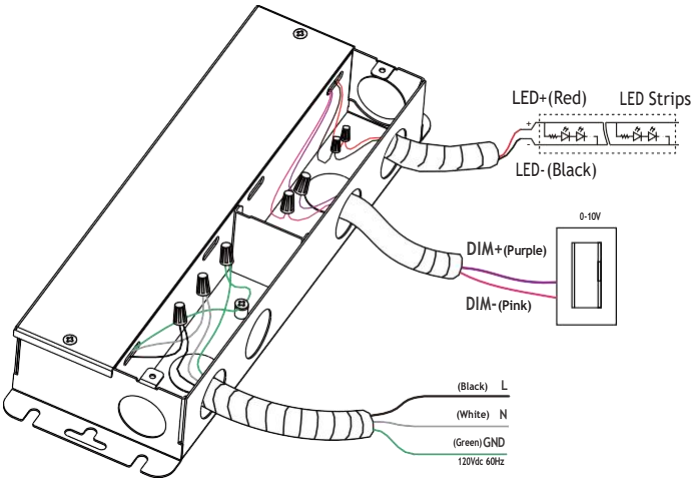
Step 3 UsingTriac MLV wiring diagram



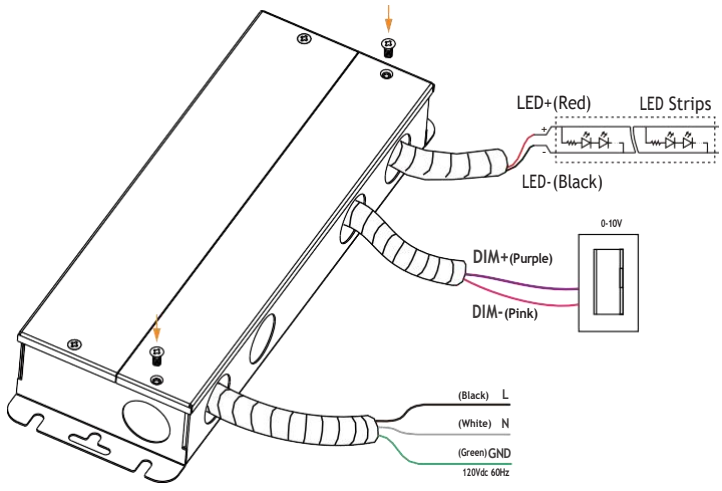
Step 4 UsingTriac ELV wiring diagram



Step 5 0-10V wiring diagram



Step 6



TRIAC Compatible Dimmer Recommendations

Mfg.	Lutron	Lutron	Lutron	Lutron	Lutron	Lutron
Model	SCL-153P-WH	DVCL-153PR-WH	MACL-153MR-WH	CTCL-150H-LA	CTCL-153-PDH-WH	DVCL-153PH-WH

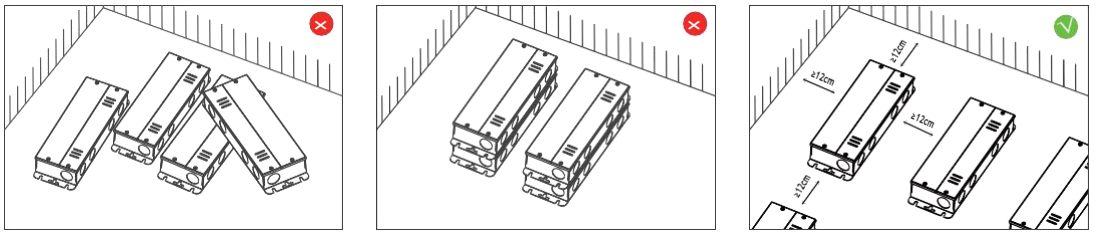
Note: "The list above recommends dimmers for TRIAC testing. Unlisted TRIAC dimmers should only be used after verification through actual testing to ensure no abnormalities. 0-10V dimming has no compatibility issues."

Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Value	Condition
Inrush current I_{peak}	40A (120V)	80A (277V)	Input Voltage120V/277V
Inrush current T_{width}	500us (120V)	200us (277V)	Input Voltage120V/277V, measured ta 50% I_{peak}

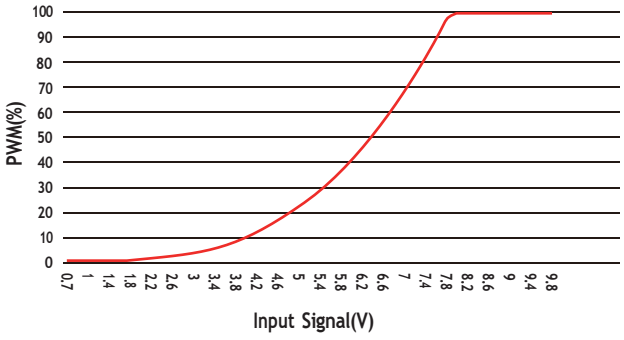
MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	3pcs	5pcs	C10	5pcs	8pcs
B13	3pcs	6pcs	C13	6pcs	11pcs
B16	4pcs	8pcs	C16	8pcs	13pcs
B20	6pcs	10pcs	C20	10pcs	17pcs
			D16	8pcs	27pcs

Installation Precautions

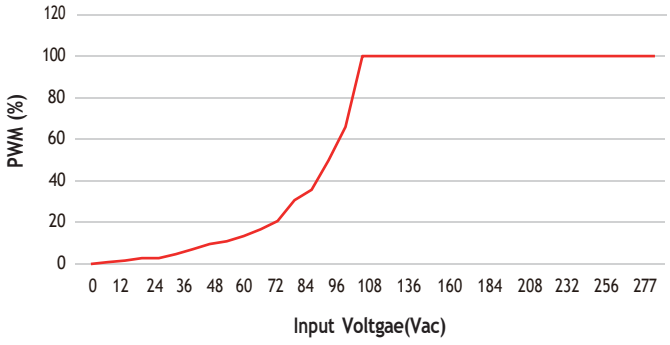


Please do not stack the products. The distance between two products should be>12cm so as not to affect heat dissipation and the lifespan of the products.

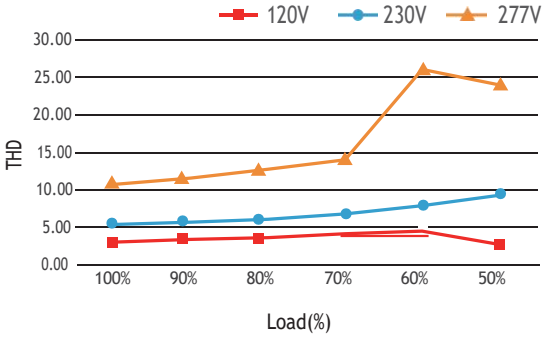
0-10V Dimming Curve



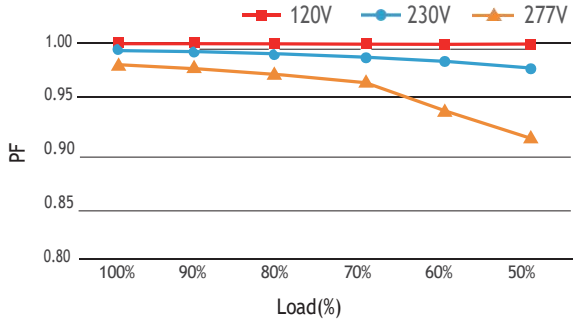
Trailing edge (ELV) Dimming Curve



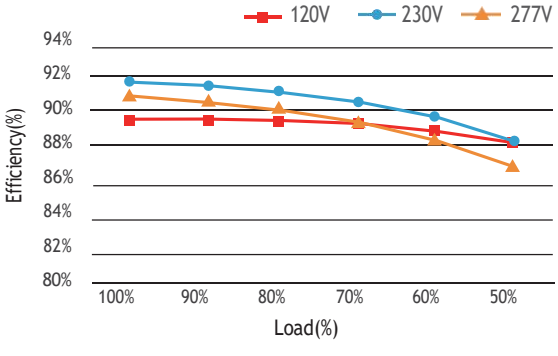
THD vs Load



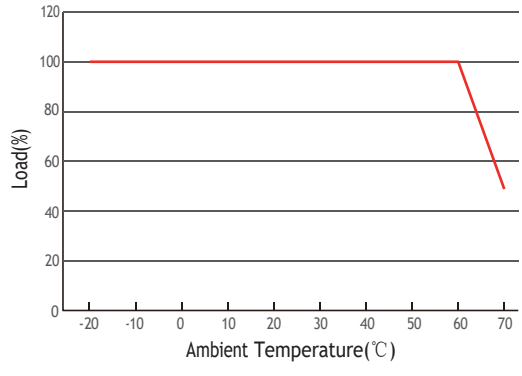
PF vs Load



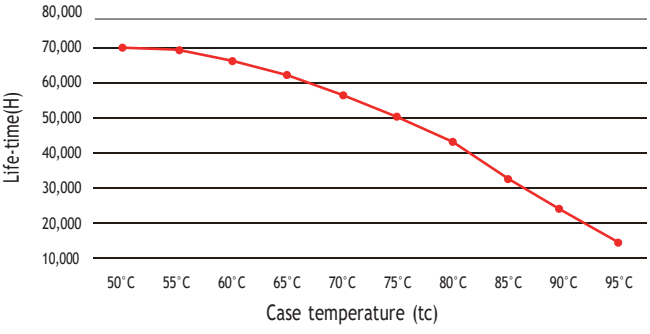
Efficiency vs Load%



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	· **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.
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. Wear or aging that occurs during normal use of the product.
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.

※Remedial measures: Repair or replacement is the only remedy provided by Oches to the customer, and Oches 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.