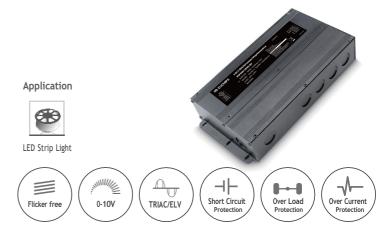


MUP180AT-3W48V-BW

Product Features

- \cdot Three-channel constant voltage output, per channel 1.25A Max
- · Input Voltage Range 120-277Vac
- · Support 0/1-10V ,Potentiometer,PWM,Triac/ELV Dimming
- · TRIAC and ELV dimming at 120 Vac only
- \cdot 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
- · Class 2 Output
- \cdot Safety according to UL8750 &UL 1310
- \cdot Suitable for Dry , Damp & Wet Locations

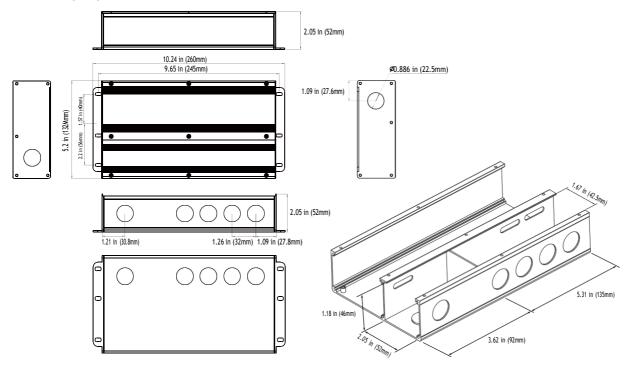


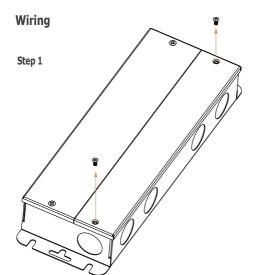
Technical Paramaters

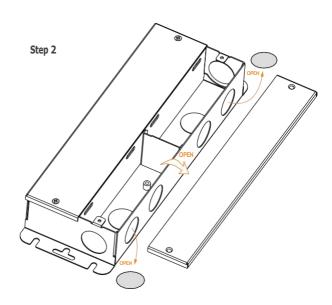
Model	MUP180AT-3W48V-BW		
	Efficiency	≥90%@120VAC, full load	
Input	Voltage	120VAC-277VAC	
	Frequency Range(Hz)	50/60Hz	
	AC Current(max)	1.78Amax@120VAC	
	PF	≥0.95@120VAC, ≥0.90@277VAC, full load	
	THD	<10%@120VAC, <15%@277VAC, full load	
	Inrush Current(max)	Cold start, 49.2A@120VAC 520us, 79.6A@277VAC 870us	
	Standby power	<4W@120VAC	
	No load power	<4W@120VAC	
	Turn on delay Time	<0.75s, @120Vac (When the light begins to shine)	
	Output Current	3 Channel, 1.250A per channel	
	Output Voltage	48VDC	
	Voltage Range	48VDC ±3%	
	Output Power	60W per channel, 3 Channel, total 180W	
Output	Output Channel	3	
	Power limit	≥120%	
	Ripple	≤1440mV	
	PWM Frequency	20K Hz	
	Dimming Type	0/1-10V ,Potentiometer,PWM,Triac/ELV(@120VAC 60Hz)	
F atia	Dimming Range	0.1%-100%(0-10V) 1%-100%(TRIAC/ELV)	
Function	Dimming curve	Logarithm (for 0-10V & Tiac/ELV)	
	Flicker	Flicker free	
	Short Circuit Protection	Shut down output, Auto-recovery after Fault Clearance	
Protection	Overload Protection	Hiccup Protection, Auto-recovery after Fault Clearance	
	Overcurrent Protection	Hiccup Protection, Auto-recovery after Fault Clearance	
	Surge	L-N: 2kV L-N-PG:4kV	
	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	
Cafata GENC	Safety standards	UL8750 UL1310 CSA25013.CSA Class P	
Safety&EMC	EMC Eission	FCC PART15B	
	EMC Immunity	IEC 61000-4-2-3-4-5-6-8-11	
	Insulation Resisance	5ΜΩ	
	Working Temp.	(-20~+60) °C [-4°F-140°F]	
	Storage Temp., Humidity	(-40~+90)°C [-40°F~194°F] 20-90%RH	
Others	tc	70°C [158°F]	
	Material	Metal	
	IP Rating		
	Lifetime	IP65	
		50,000h@tc:70°C [158°F]	
	Warranty Condition	5 years	
	Switch Cycle	25,000 times	
	Packing(weight)	Net weight: 1750g (3.86 lb)±5%/PCS; 10PCS/Carton;18kg(39.68 lb)±5%/Carton; Carton Size: 322*279*302mm(12.68*10.98*11.98 lnch)(L*W*	
	Dimension	262*132*52mm (10.24*5.2*2.05 lnch) (L*W*H)	



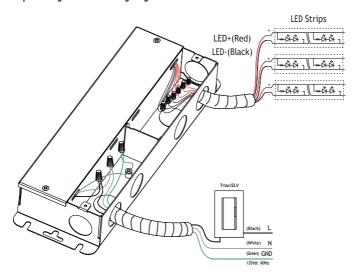
Dimension(mm)



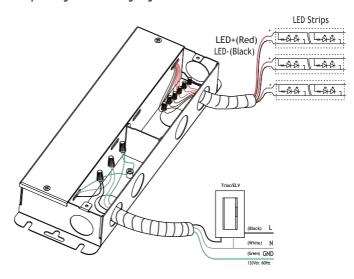




Step 3 UsingTriac MLV wiring diagram



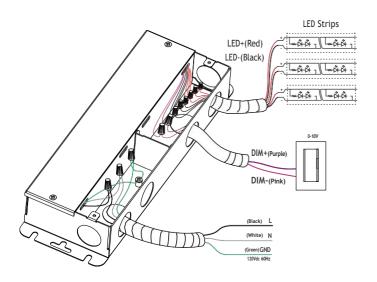
Step 4 UsingTriac ELV wiring diagram

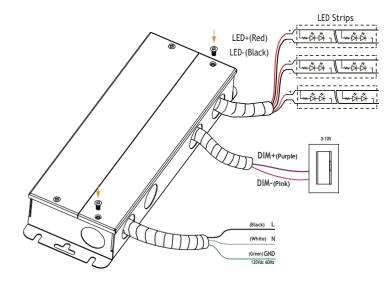




Step 5 0-10V wiring diagram

Step 6





Mode switching

- 1. Dimming Mode Switching Window: Operation is only allowed within 30 seconds after power-on, and the device must remain powered off for at least 5 seconds before re-powering.
- 1. Activation Condition: The target action must be continuously maintained for 5 seconds to take effect.
- Device Limitation: Only one dimming mode can be used at a time (e.g., if 0-10V mode is selected, a TRIAC dimming knob cannot be connected simultaneously. If TRIAC mode is selected, the 0-10V signal must remain disconnected and insulated).
- 4 Mode Persistence: Once a dimming mode is activated, it remains in effect until the next mode switch.

Dimming Mode Operation Steps Reference Table			
Target mode	Action requirements	Effective verification	
0-10V mode	Control voltage ≤ 5V (hold for 5 seconds)	0-10V Mode: Normal Dimming	
TRIAC/ELV Mode	Adjust the knob to 80%-50% brightness (hold for 5 seconds)	Triac/ELV Mode: Normal Dimming	

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."

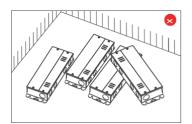
Max. quantity of drivers per miniature circuit breaker

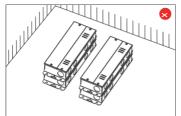
Specification item	Value	Value	Condition
Inrush current Ipeak	49.20A (120V)	79.6A (277V)	Input Voltage120V/277V
Inrush current Twidth	520us (120V)	870us (277V)	Input Voltage120V/277V, measured ta 50% Ipeak

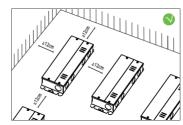
МСВ	Input Voltage 120V Drivers	Input Voltage 277V Drivers	МСВ	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B10	2pcs	1pcs	C10	4pcs	1pcs
B13	3pcs	1pcs	C13	6pcs	2pcs
B16	4pcs	1pcs	C16	7pcs	2pcs
B20	5pcs	2pcs	C20	9pcs	3pcs
			D16	8pcs	5pcs



Installation Precautions

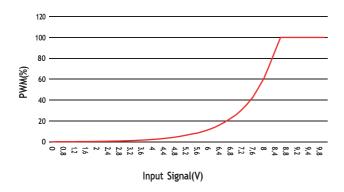




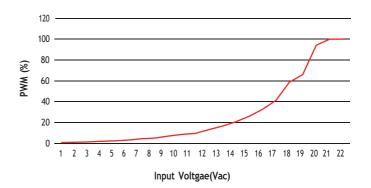


Please do not stack the products. The distance between two products should be>12cm so as not to affect heat dissipation and the lifespan of the products.

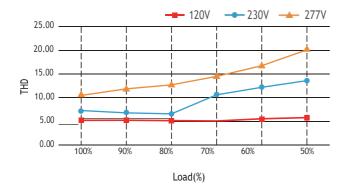
0-10V Dimming Curve



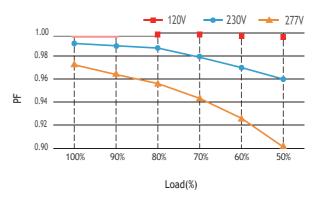
Trailing edge (ELV) Dimming Curve



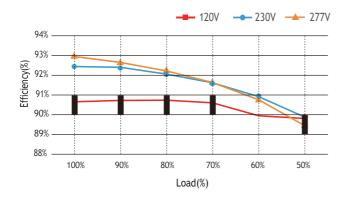
THD vs Load



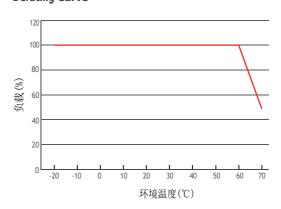
PF vs Load



Efficiency vs Load%

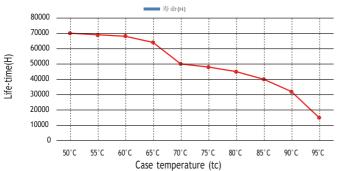


Derating Curve





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

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 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.
- $\ensuremath{\mathtt{l}}.$ Damage caused by human factors such as high voltage, overload, and improper operation.
- $\it 3$. The appearance of the product is severely damaged or deformed.

- ${\it 6.}$ 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.