

MUP288ADS-3W24V-B

Summary

MUP288ADS-3W24V-B is a constant voltage mode output LED driver. This driver complies with DALI standard protocol IEC 62386, and provides DALI,0/1-10V active signal dimming.

Product Features

- Single channel constant voltage output,4A Max
- Wide input voltage of 120VAC ~ 277VAC
- 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
- IP20, suitable for indoor LED lighting application
- Protection: Over load; short circuit; Over Current
- Up to 50000-hour life time.
- 5 year warranty

Application



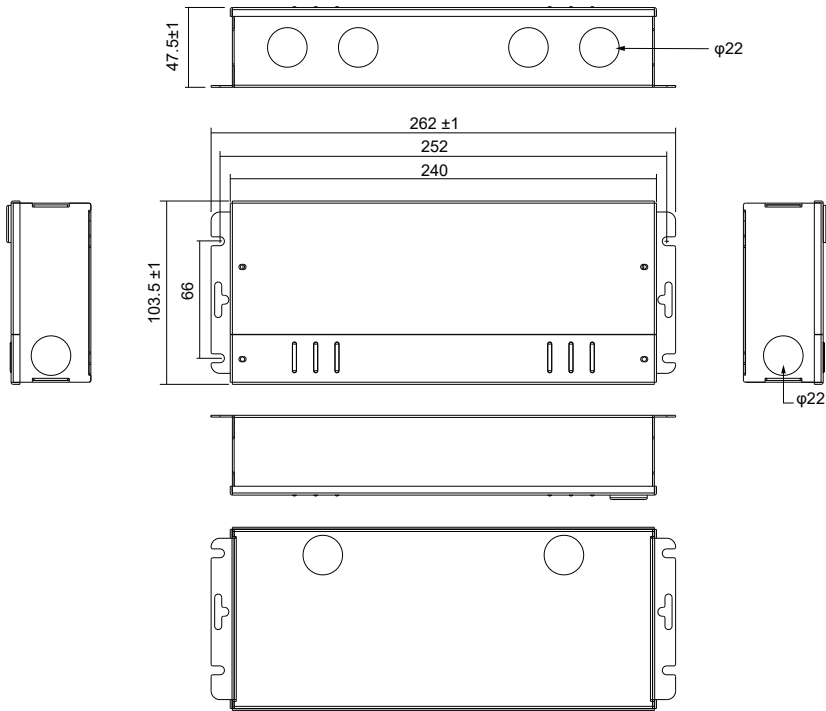
LED Strip Light



Technical Parameters

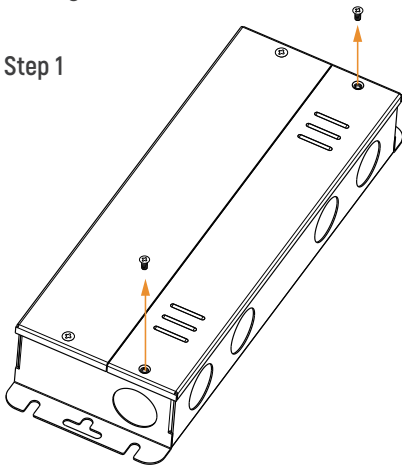
Model	MUP288ADS-3W24V-B	
Input	Efficiency	≥91%@120VAC, full load
	Voltage	120VAC-277VAC
	Frequency Range(Hz)	50/60Hz
	AC Current(max)	3Amax @120VAC 1.5Amax@230VAC 1.4Amax@277VAC
	PF	≥0.95@120VAC ≥0.92@277VAC, full load
	THD	<10%@120VAC <10%@277VAC, full load
	Inrush Current(max)	Cold start,40A@120VAC 240us
	Standby power	<0.5W@120VAC
	No load power	<0.75W@120VAC
	Turn on delay Time	<0.75s, at120Vac (When the light begins to shine)
Output	Current	4A
	Voltage	24VDC
	Voltage Range	24VDC ±5%
	Power	96W
	Overload power limitation	≥105%
	Ripple & Noise	≤720mV
	Channel	3
	Auxiliary Power (Vaux)	12VDC±3% 200mA
	Frequency	20KHz PWM
Function	Dimming Type	0-10V, DALI
	Dimming Range	0.1%-100% Dimming to off
	Dimming curve	Logarithm
	Flicker	Flicker free IEEE1789
Protection	Short Circuit	Close output, Automatic recovery after troubleshooting
	Over Load	Close output, Automatic recovery after troubleshooting
	Over Current	Close output, Automatic recovery after troubleshooting
Safety&EMC	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]:1500Vac/1min/<5mA
	Safety standards	UL8750 UL1310 CSA C22.2 No250.13
	EMC Eission	FCC PART15B
	Energy efficiency	Title24
Others	Working Temp.	-20°C~+60°C (-4°F~140°F)
	Storage Temp., Humidity	-40°C~85°C(-40°F~185°F), 20-90%RH
	tc	85°C(185°F)
	Material	Metal
	IP Rating	IP20
	Lifetime	50,000h@tc:85°C(185°F)
	Warranty Condition	5 years
	Switch Cycle	25,000 times
	Packing(weight)	Net weight: 1650g (3.63 lb) ±5%/PCS; 8PCS/Carton;13.7kg(30.2 lb)±5%/Carton; Carton Size: 452*284*135mm(17.8*11.2*5.3 Inch)(L*W*H)
Dimension	262*104*46mm (10.31*4.1*1.8 Inch) (L*W*H)	

Dimension(mm)

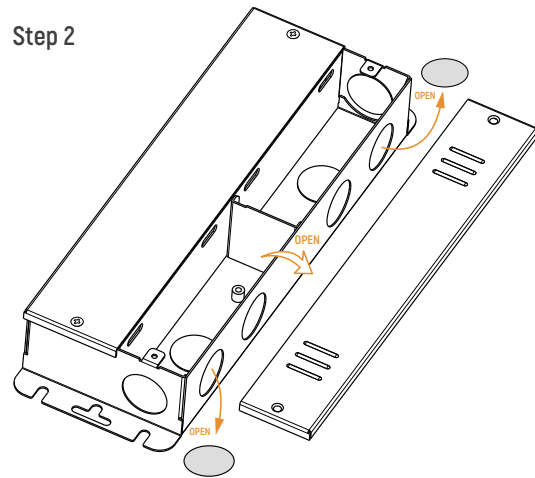


Wiring

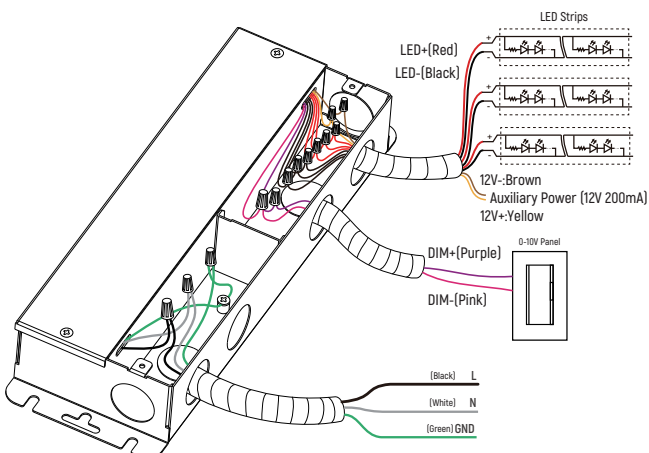
Step 1



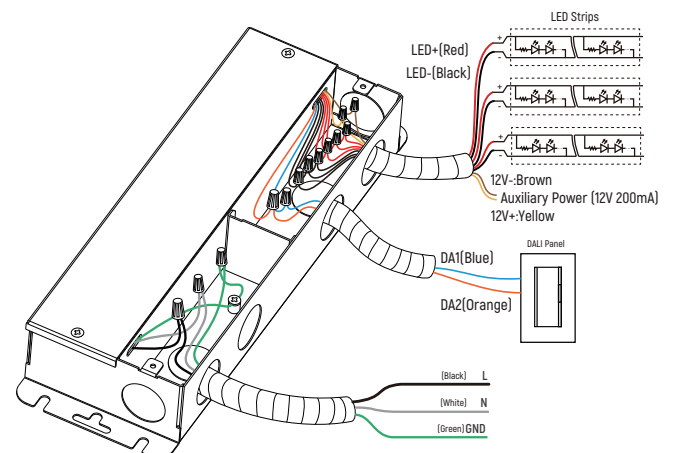
Step 2



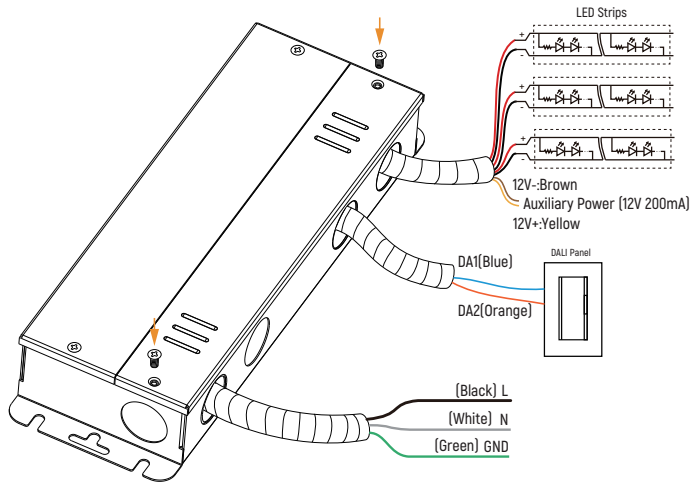
Step 3 0-10V wiring diagram



Step 4 DALI wiring diagram



Step 5 Mounting top cover

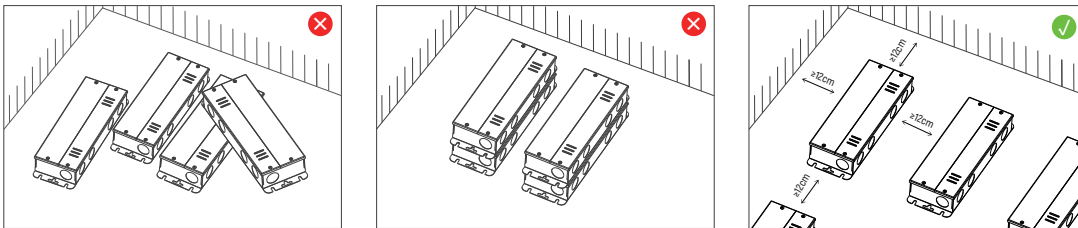


Max. quantity of drivers per miniature circuit breaker

Specification item	Value	Value	Condition
Inrush current I_{peak}	40A (120V)	60A (277V)	Input Voltage 120V/277V
Inrush current T_{width}	240us (120V)	260us (277V)	Input Voltage 120V/277V, measured to 50% I_{peak}

MCB	Rating	Input Voltage 120V Drivers	Input Voltage 277V Drivers	MCB	Rating	Input Voltage 120V Drivers	Input Voltage 277V Drivers
B	10A	3pcs	5pcs	C	10A	3pcs	7pcs
B	13A	4pcs	6pcs	C	13A	4pcs	9pcs
B	16A	5pcs	8pcs	C	16A	5pcs	11pcs
B	20A	6pcs	10pcs	C	20A	6pcs	14pcs
				D	16A	5pcs	11pcs

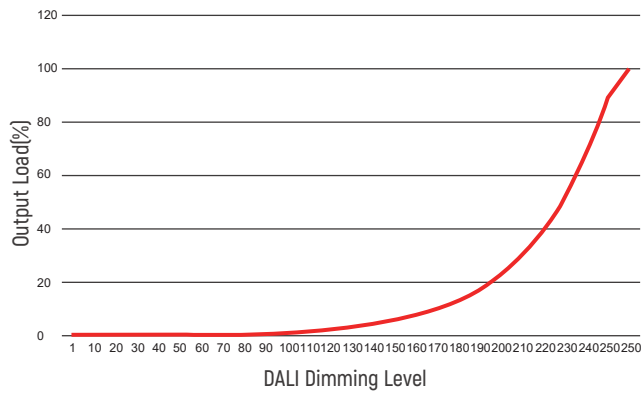
Installation Precautions



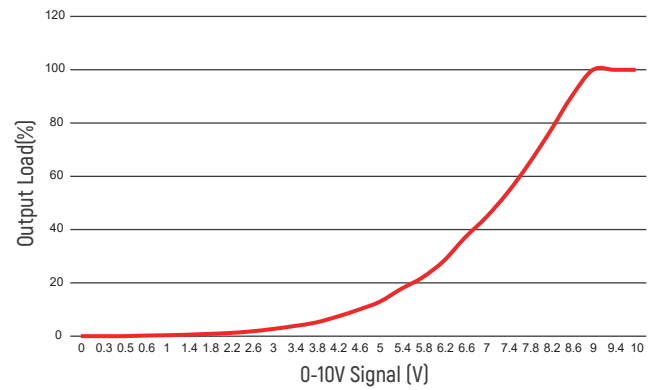
Please do not stack the products. The distance between two products should be >12cm so as not to affect heat dissipation and the lifespan of the products.

Dimming Curve

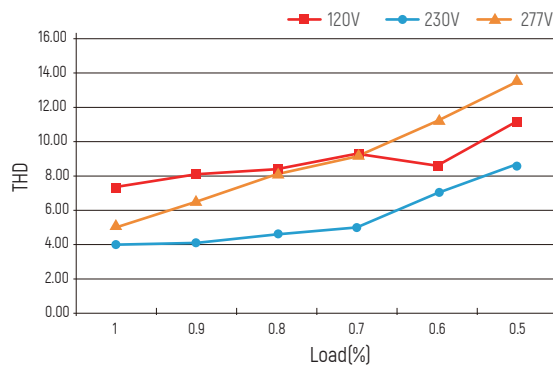
DALI



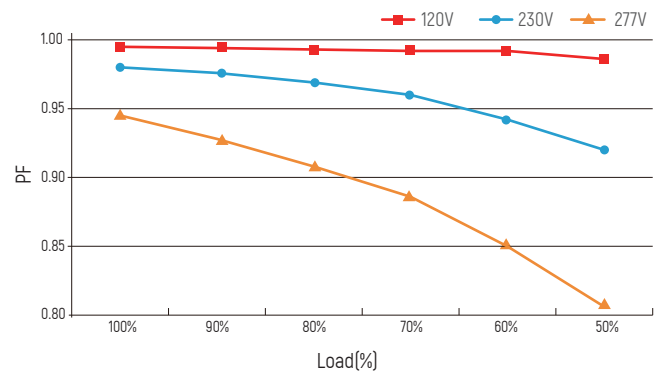
0-10V



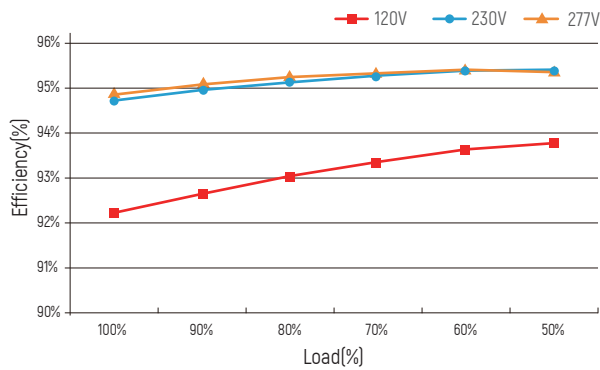
THD vs Load



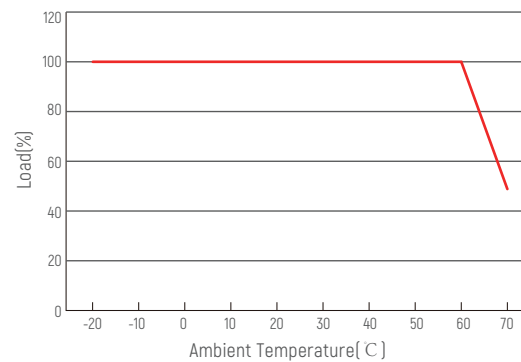
PF vs Load



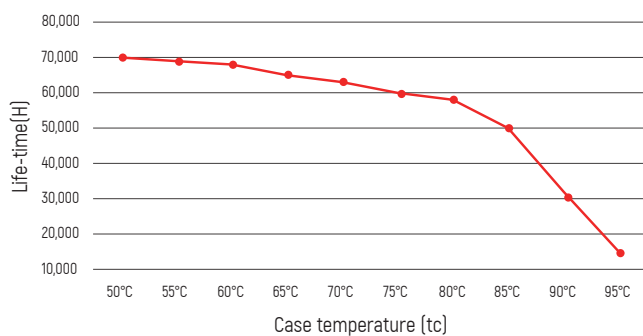
Efficiency vs Load%



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 t_c to t_a temperature depends also on the luminaire design.

Cautions

1. This product should be installed by qualified personnel.
2. This product is non waterproof, need to avoid sun and rain. In case of outdoor use, please ensure it is mounted in a water proof enclosure.
3. Good heat dissipation conditions extend product life. Please install the product in a well-ventilated environment.
4. Please make sure LED power supply output voltage, current is used to meet the product requirements.
5. Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
6. Due to safety concerns, PVC or rubber cord of 0.75- 2.5mm² is recommended for input and output terminal(s) (excluding signal terminals). Flat power cord is not suitable. Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
7. In case of malfunction, do not repair it yourself.

※ 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:

1. Beyond warranty periods.
2. Any artificial damage caused by high voltage, overload, or improper operations
3. Products with severe physical damage.
4. Damage caused by natural disasters and force majeure.
5. Warranty labels and barcodes have been damaged.
6. No any contract signed by EUCHIPS.

· Repair or replacement provided is the only remedy for customers. EUCHIPS is not liable for any incidental or consequential damage unless it is within the law.
· EUCHIPS has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.