

0-10V Dimmable Drivers with Junction Box











AL-98-06-24288-MT



0-10V dimmable LED drivers are designed to integrate into existing 0-10V dimming systems and provide smooth, efficient power and dimming capability for LED lighting. These drivers include an inspection-ready ETL Listed junction box enclosure and offer unparalleled performance for 0-10V systems. These drivers are already derated, which means they can be loaded to maximum wattage capacity.

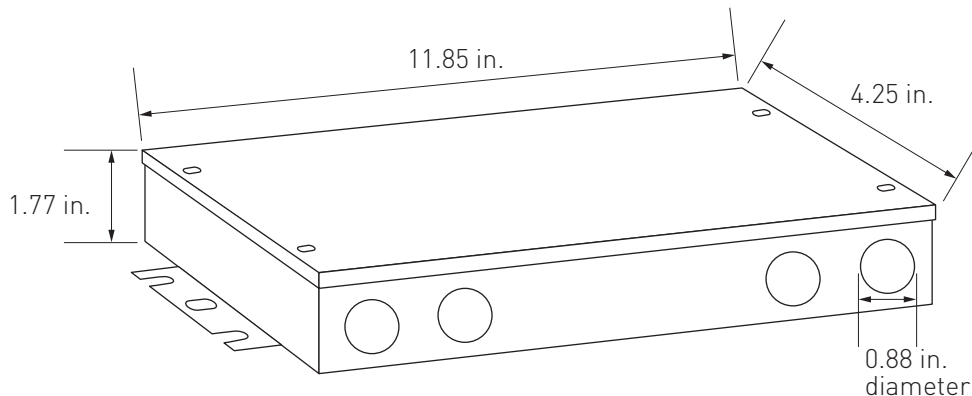
- Multi-tap models maintain Class 2 compliance in large applications
- 100% to 1% dimming
- NEMA 4X for use outdoors or indoors in dry/damp/wet environments
- 100~277V AC input for commercial and residential
- 5 year warranty

QUICK SPECIFICATIONS

Input		100-277V AC
Features	  	100% maximum load 10% minimum load Class 2
Environment	 	Dry/damp/wet environment
Certifications	  	UL Listed RoHS NEMA 4X
Warranty		5 year limited

DIMENSIONS

Junction Box Dimensions



TECHNICAL INFORMATION

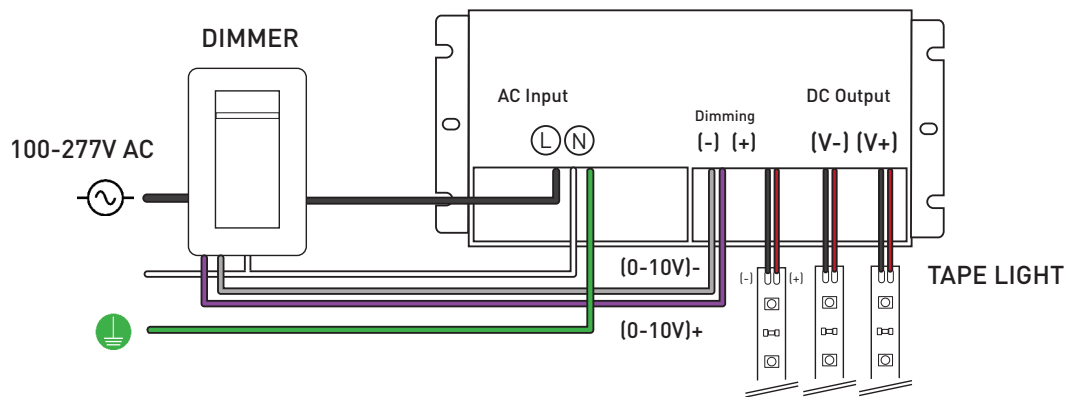
Item Number		AL-98-06-24288-MT
Output	DC Voltage	24V DC
	Channels	3
	Current per Channel	4A (12A total)
	Wattage per Channel	96W (288W total)
	Voltage Accuracy	±0.5V
	Dimming Range	100~1%
Input	Voltage Range	100~277V AC
	Frequency Range	47~63HZ
	Power Factor (Avg.)	0.99 @ 120V AC / 0.95 @ 277V AC
	Full Load Efficiency (Avg.)	87% @ 120V AC / 91% @ 277V AC
	AC Current (Avg.)	3.4A / 100V AC
	Leakage Current	<0.5mA
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed
	Over Temperature	100°C ± 10° C - Shut down o/p voltage, re-power on to recover
	Over Voltage	≤280V AC
Environment	Working Temperature	-40 ~ +60°C, -40 ~ +140°F
	Working Humidity	20~90% RH, non-condensing
	Storage Temperature, Humidity	-40 ~ +80°C, -40~176°F / 10~95%RH
	Temperature Coefficient	±0.03%/°C (0~50°C, 32~122°F)
	Vibration	10~500Hz, 5G 12 min. / 1 cycle, period for 72 min. each along X, Y, Z axes
Safety and EMC	Safety Standards	UL 8750, UL 1310
	Withstand Voltage	I/P-O/P: 1.88KV AC
	Isolation Resistance	I/P-O/P:>100MΩ / 500V DC / 25°C, 77°F / 70% RH
	EMC Emission	FCC 47 CFR Part 15 ,Subpart B
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level
Other	Warranty	5 Year Limited
	Dimensions (L x W x H)	11.85 x 4.25 x 1.77 in.
	Knockouts (Number - dia.)	8 knockouts - 7/8 in.

All parameters NOT specially mentioned are measured at 110V / 220V AC input, rated load, and 25°C, 77°F of ambient temperature.

Warning: Do NOT reverse polarity high voltage input of the driver as it will destroy the product.

WIRING DIAGRAMS

Using a Standard Wall Dimmer



Note: Dimmer switch wiring for reference use only. Please follow wiring instructions provided with the dimmer switch.

TROUBLESHOOTING

Q: Q: Why are the lights connected to the driver blinking roughly once a second?

A: The driver may be overloaded. Check to make sure the maximum wattage is not being exceeded. There could also be a possibility of incompatible voltage. Confirm that the driver and tape light voltage match.

Q: How do I determine the compatibility?

A: Check the voltage, wattage, load capacity of both the tape light and driver.

Q: Is it possible to have multiple runs of tape light that are daisy-chained together connect to a driver with 1 lead wire?

A: Yes, but only if the total length of consecutive runs do not exceed the tape light's maximum run and also does not exceed the driver's maximum wattage.