

ALLOY LED[®] Specifications

0-10V Dimmable Drivers with Junction Box










AL-98-06-24020



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 UL 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.

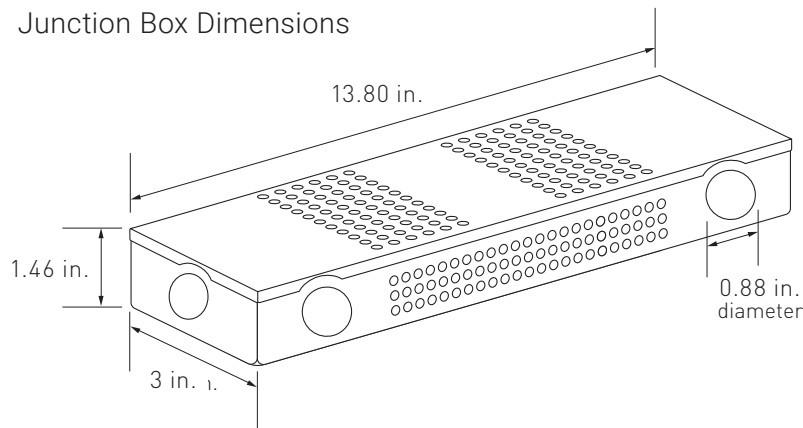
- Includes UL Listed junction box
- 100% to 1% dimming
- IP20 for use indoors in dry environments
- No minimum load
- 5 year warranty

QUICK SPECIFICATIONS

Input		120V AC
Features	  	100% maximum load 0% minimum load Class 2
Environment	 	Dry environment (IP20) Protection from solid objects
Certifications	 	ETL Listed RoHS
Warranty		5 year limited

DIMENSIONS

Junction Box Dimensions



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TECHNICAL INFORMATION

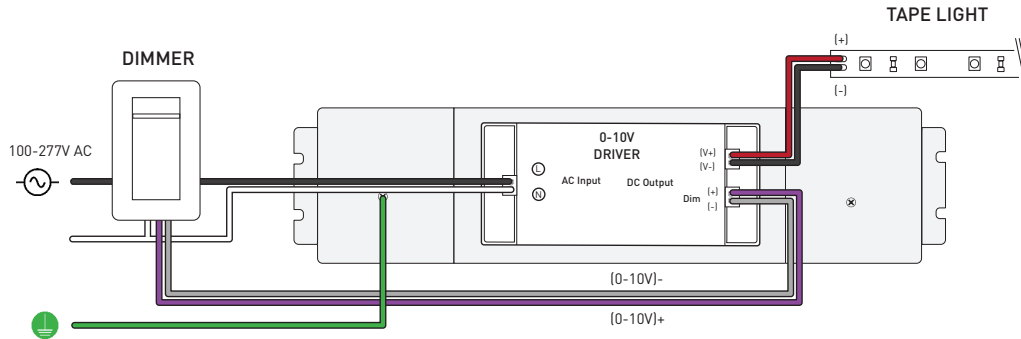
Item #	AL-98-06-24020	
Output	DC Voltage	24V DC
	Rated Current	0.83A
	Rated Power	20W
	Voltage Accuracy	±0.5V
	Dimming Range	100~1%
Input	Voltage Range	100~265V AC
	Frequency Range	47~63HZ
	Power Factor (Avg.)	PF>0.92 / 110V AC
	Full Load Efficiency (Avg.)	82%
	AC Current (Avg.)	0.22A / 110V AC
	Leakage Current	<0.5mA / 110V AC
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed
	Over Loading	≤120%
	Over Current	≤1.2*I out
Environment	Working Temp.	-40 ~ +50°C, -40 ~ +122°F
	Working Humidity	20~90% RH, non-condensing
	Storage Temp., Humidity	-40 ~ +80°C, -40~176°F / 10~95%RH
	Temp Coefficient	±0.03%/°C (0~50°C, 32~122°F)
	Vibration	10 ⁸ 500Hz, 2G 12min./1 cycle, period for 72min. each along X,Y,Z axes
Safety & EMC	Safety Standards	EN61347-1, EN61347-2-13
	Withstand Voltage	I/P-O/P: 3.75KV AC
	Isolation Resistance	I/P-O/P:>100MΩ/500V DC/25°C, 77°F/70% RH
	EMC Emission	Compliance to EN55015,EN61000-3-2 (≥60%load)
	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)	13.8 x 3 x 1.46 in.
	Knockouts (# - dia.)	6 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: 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.