

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 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.

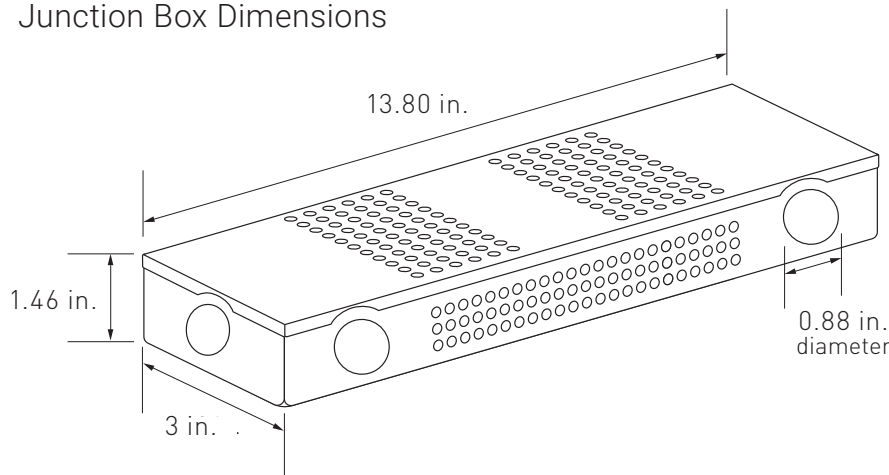
- Includes ETL Listed junction box
- 100% to 1% dimming
- IP20 for use indoors in dry environments
- No minimum load
- 5 year warranty

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



TECHNICAL INFORMATION

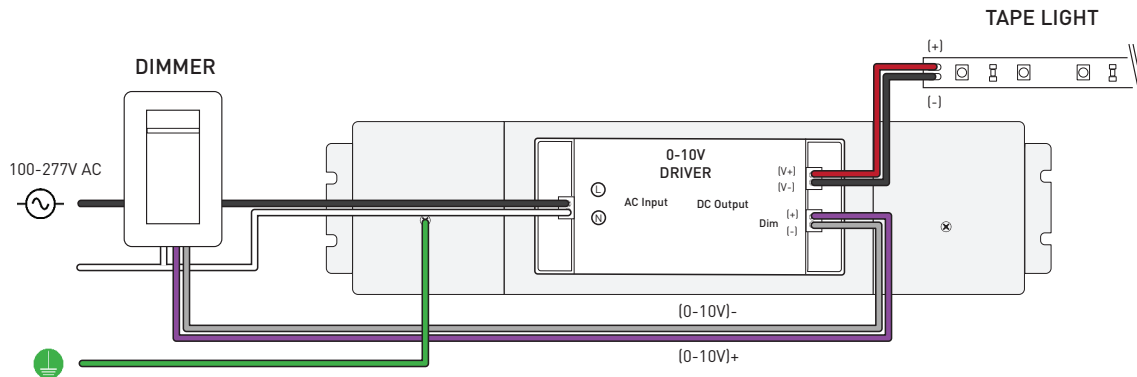
| Item Number | | AL-98-06-24020 |
|----------------|-------------------------------|---|
| Output | DC Voltage | 24V DC |
| | Rated Current | 0.83A |
| | Rated Power | 20W |
| | Voltage Accuracy | ±0.5V |
| | Dimming Range | 100~1% |
| Input | Voltage Range | 100~265V AC |
| | Frequency Range | 47~63HZ |
| | 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 Temperature | -40 ~ +50°C, -40 ~ +122°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, 2G 12min./1 cycle, period for 72min. each along X,Y,Z axes |
| Safety and 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 (Number - 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.