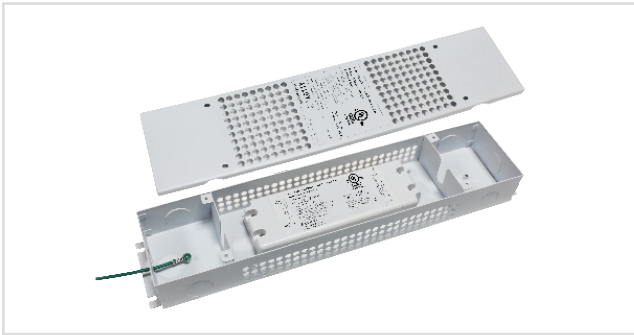


# 0-10V Dimmable Drivers with Junction Box









AL-98-06-24060-277



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.

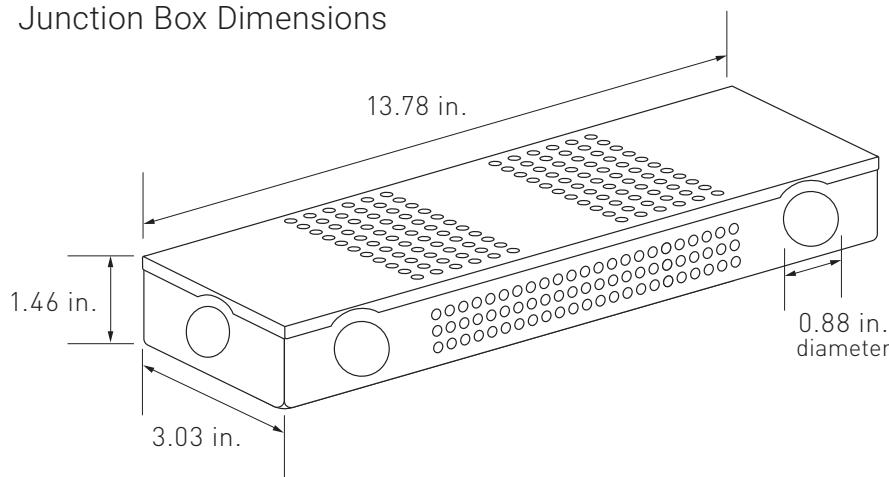
- Includes UL Listed junction Box
- 100% to 1% dimming
- For use indoors in dry/damp environments
- No minimum load
- 5 year warranty

## QUICK SPECIFICATIONS

|                       |  |   |
|-----------------------|--|---|
| <b>Input</b>          |   | 100-277V AC                                     |
| <b>Features</b>       |    | 100% maximum load<br>0% minimum load<br>Class 2 |
| <b>Environment</b>    |   | Dry/damp environment                            |
| <b>Certifications</b> |    | UL Listed<br>RoHS                               |
| <b>Warranty</b>       |   | 5 year limited                                  |

## DIMENSIONS

Junction Box Dimensions



## TECHNICAL INFORMATION

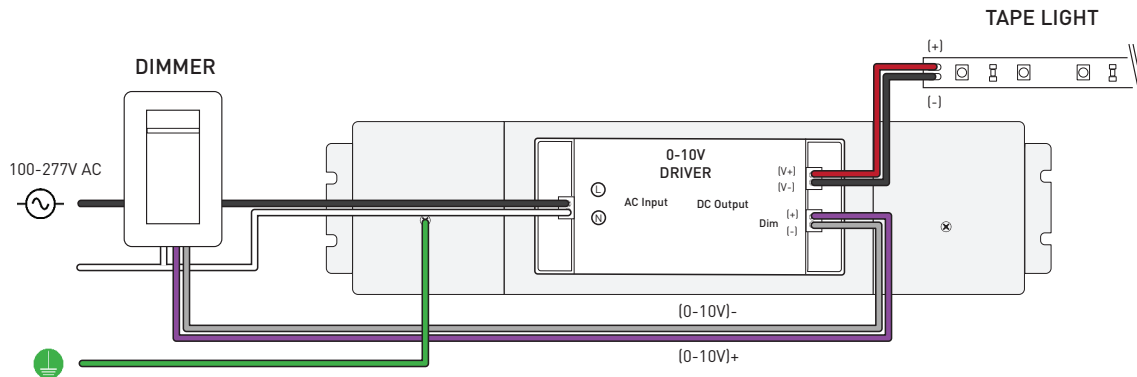
| Item Number           |                               | AL-98-06-24060-277  |
|-----------------------|-------------------------------|---|
| <b>Output</b>         | DC Voltage                    | 24V DC  |
|                       | Rated Current                 | 2.5A  |
|                       | Rated Power                   | 60W   |
|                       | Voltage Accuracy              | ±0.5V   |
|                       | Dimming Range                 | 100~1%  |
| <b>Input</b>          | Voltage Range                 | 100~277V AC   |
|                       | Frequency Range               | 47~63HZ   |
|                       | Power Factor (Avg.)           | 0.98 @ 120V AC    0.95 @ 277V AC  |
|                       | Full Load Efficiency (Avg.)   | 83% @ 120V AC    84% @ 277V AC  |
|                       | AC Current (Max.)             | 0.9A  |
|                       | Inrush Current                | 14A, 50%, 780us @ 120V AC    15A, 50%, 660us @ 277V AC                                |
|                       | Leakage Current               | <0.5mA  |
| <b>Protection</b>     | Short Circuit                 | Shut down o/p voltage, re-power on to recover after fault condition removed           |
|                       | Over Temperature              | 100°C ± 10° C (212°F ± 50°F)- Shut down o/p voltage, automatic recovery after cooling |
|                       | Over Voltage                  | ≤120% Hiccup mode, recovers automatically after fault condition is removed            |
| <b>Environment</b>    | Working Temperature           | -40 ~ +60°C, -40 ~ +140°F   |
|                       | Working Humidity              | 20~95% 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 10min./1 cycle, period for 60 min. each along X, Y, Z axes               |
| <b>Safety and EMC</b> | Safety Standards              | UL8750+UL1310, CAN/CSA-C22.2 No.250.13  |
|                       | 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   |
| <b>Other</b>          | Warranty                      | 5 Year Limited  |
|                       | Dimensions (L x W x H)        | 13.78 x 3.03 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.