

AltaDrive

Installation Guide

For Models:

ATU96L24DC

ATU96L24DC-AWN

ATU96R24DC

Quick Specs

Input Voltage Range	120 to 277VAC $\pm$ 10%; 50/60Hz
Maximum Load	96W
Output Voltage	24VDC
Dimming Method(s)	Phase-Cut (120V), 0-10V (120-277VAC)
Operating Temp.	-40°C to 40°C (-40°F to 104°F)
Enclosure	IP66
Certifications	Class 2, UL8750, CSA C22.2 No 250.2



BEFORE YOU BEGIN

General

This driver is to be installed in accordance with Article 450 of the National Electric Code (NEC). The driver must be installed in a well-ventilated area, free from explosive gases and vapors. Proper operation requires for free flow of air. Since this driver is hardwired, it should only be installed by a qualified electrician.

Precautions Before Installation

- Check the label and ensure the driver has the proper input voltage and wattage for the job. Check the wire markings to ensure that they match the wiring diagram, below
- If the product has any visible damage, do not install it

Mounting

Select a suitable location capable of supporting the weight of the driver. Use the mounting holes on both ends when mounting. Recommended spacing between drivers is 5 inches.

Input Connections/Grounding

Remove the input side wiring cover and select knockout to use for input. With power off, route input wires through the knockout opening using a strain relief and connect them using UL Listed connectors per the wiring diagram. The driver must be grounded in accordance with the NEC. Input wires are color-coded: Line (black), Neutral (white), and Ground (green).

Universal Dimming

Dimmable with 0-10V (wired or use Aux Out with wireless node), forward phase (MLV), reverse phase (ELV), PWM and potentiometer style dimmers.

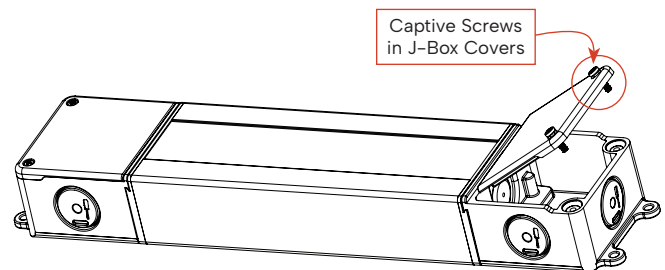
Output Connections

Bring the wires from LED tape/fixture through the opening of a removed knockout using a strain relief and connect them using UL Listed connectors per the wiring diagrams. Do not exceed the maximum wattage of 96W. Minimum Load is 8W for proper dimming control.

15VDC Aux Out Connection

Operates sensors & accessories that operate between 12VDC and 24VDC. Yellow wire is Positive (+), Brown wire is Negative (-). Auxiliary Output will power accessories such as Wireless Nodes, Motion Sensors, etc. Connect as shown in wiring diagram below.

IMPORTANT NOTE: If Auxiliary Output is not used the wires must be capped off to avoid possible short circuit.



↓ WIRING DIAGRAM ↓

120-277V Input

White: Neutral (-)
 Green: Ground
 Black: Line (+)

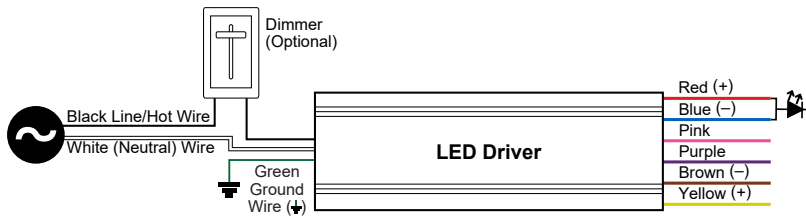


Output

Red: 24VDC Out (+)
 Blue: 24VDC Out (-)
 Pink: 0-10V (-)
 Purple: 0-10V (+)
 Brown: Aux Out (-)
 Yellow: Aux Out (+)

↓ WIRING DIAGRAM CONFIGURATIONS ↓

Forward & Reverse Phase-Cut Dimming

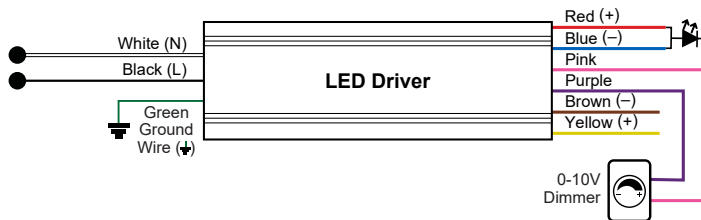


15VDC Aux Output

Powers accessories that operate between 12VDC and 24VDC.

If not used, wires must be capped off to avoid short.

0-10V Dimming

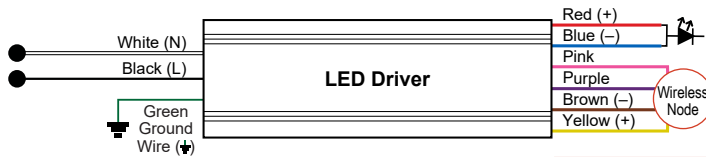


15VDC Aux Output

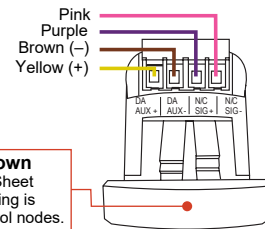
Powers accessories that operate between 12VDC and 24VDC.

If not used, wires must be capped off to avoid short.

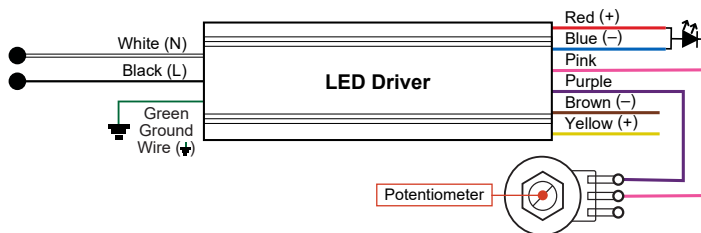
0-10V Wireless Node



Lutron Athena Awn Shown
Consult Lutron Specification Sheet 3691234 for more details. Wiring is typical for other wireless control nodes.



Potentiometer Dimming

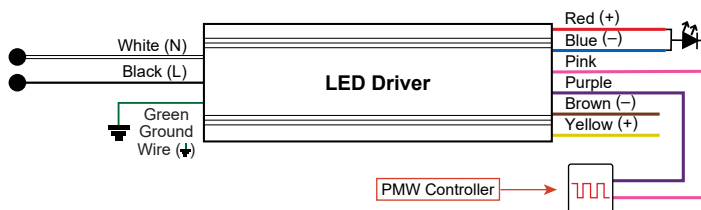


Note

For full load use 50k Ω potentiometer.

If not used, aux. output wires must be capped off to avoid short.

PWM Controller Dimming



Note

PWM controller dimming signal frequency range: 500Hz to 2KHz @ 10V amplitude.

If not used, aux. output wires must be capped off to avoid short.