

# INSTALLATION INSTRUCTIONS

## BEFORE YOU BEGIN

- Read and follow all instructions
- Installation must comply with the NEC
- Installation work and electrical wiring should be done by a qualified person(s) in accordance with all applicable codes and standards.
- Ensure the unit has input, output voltage and output wattage proper for your application.

### 5 in 1 Dimmable LED Driver with Optional Output Frequency

<b>12/24/48VDC</b>
<b>30W 60W 80W 96W</b>
<b>100W 120W 150W 180W 192W 200W</b>
<b>288W 300W 384W</b>

### Precautions Before Installing

Check the label and ensure the transformer has the proper input voltage and wattage for the job. Check the wire markings to ensure they match the wiring diagram on this installation guide.

### Mounting

The LED driver must be mounted in at least 5" of a free flow air space for proper ventilation. The LED driver must never be mounted next to or above heat radiated objects. The Maximum ambient temperature should not exceed 50 deg.C (122 deg.F) If you are installing multiple drivers, keep a minimum space of 5" Inch between each driver.  
SUITABLE FOR DRY, DAMP AND WET LOCATIONS.

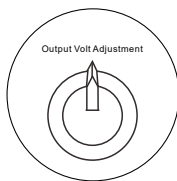
### Input Connections / Grounding

Remove the wiring compartment knockouts and install strain reliefs. With power turned off, route the input wires through a strain relief and connect one wire to black and one wire to white. For all wire connections use only UL listed wire nuts and connectors of suitable size and type. The transformer case **MUST** be grounded in accordance with the N.E.C. Connect the ground wire to the transformer green wire.

### Output Connections

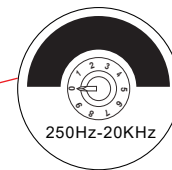
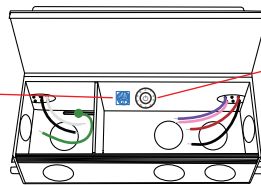
Bring the wires of the light fixture through the other open knockout and connect them to the transformer's lead wires, V+ to Red, V- to Black. Make sure all your connections are tight.

### Function Introduction



#### Fine Tuning the Output Voltage

See below:  
12V Output: 9V-13V  
24V Output: 17V-25V  
48V Output: 36V-49V



#### Switch to different gears to choose frequency

See below:

0: 4000Hz	5: 2000Hz
1: 250Hz	6: 3600Hz
2: 400Hz	7: 8000Hz
3: 800Hz	8: 16000Hz
4: 1470Hz	9: 20000Hz

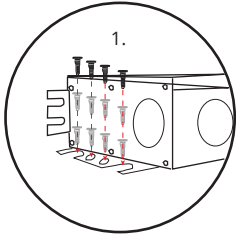
## Installation

### Mounting

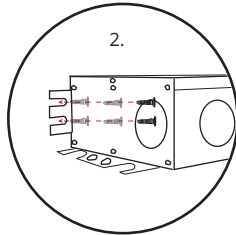
1. This driver must be installed in a well-ventilated area free from explosive gases and vapors. Air circulation is essential for heat dissipation.

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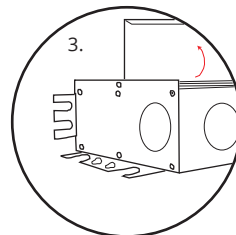
2. Recommended spacing between LED drivers should be a minimum of 4" (100mm).
3. Do not mount driver close to or above objects that can radiate heat.  
Vertical mounting is highly recommended.
4. Select an appropriate location that is able to support the weight of the product.
5. Use the mounting tabs on the left and right side of the driver to mount the product.



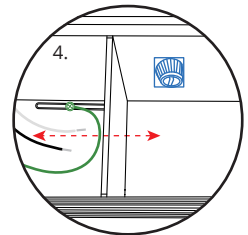
Vertical mounting



Horizontal mounting

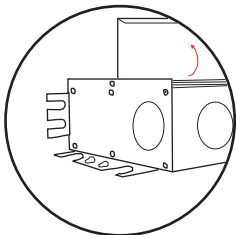


Rotary flap without screws structure

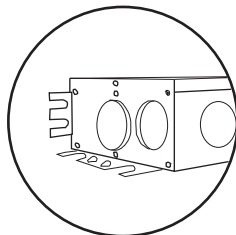


Mobile baffle, strong and weak electric isolation, flexible adjustment of strong and weak electric space size.

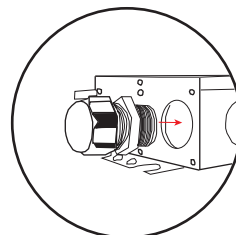
### Connection Preparation



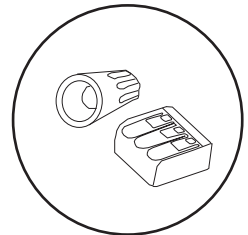
Open face cover



Remove the desired knockouts for both input and output

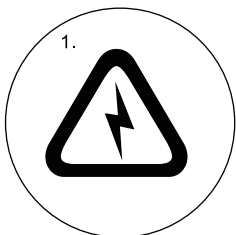


Use the appropriate sized wire gauge and connectors. (Not included)

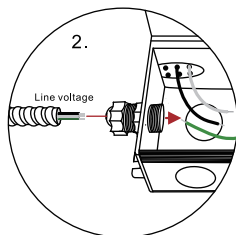


Only use certified components in accordance with national and local electric codes.

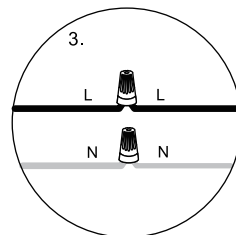
### Input Connections & Grounding



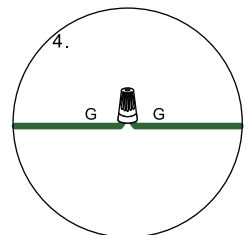
Ensure power is disconnected at the source



Route line voltage input wires and ground wire through strain relief and knockout.

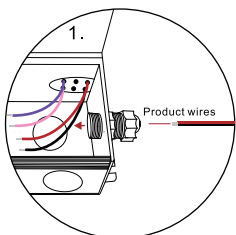


Connect black input wire (L) and input wire (N) to line voltage.

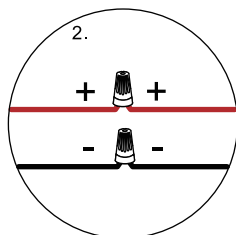


Connect green wire (ground) to input ground wire.

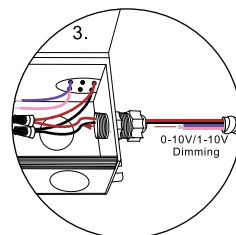
### Output Connections



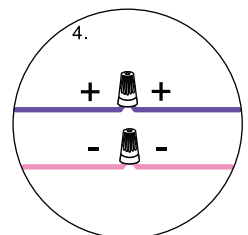
Route low voltage product wires through strain relief and knockout.



Securely connect driver's black wire(-) and red wire(+) to low voltage product, matching polarity.



If available, route 0-10V/1-10V dimming wires through strain relief and knockout.



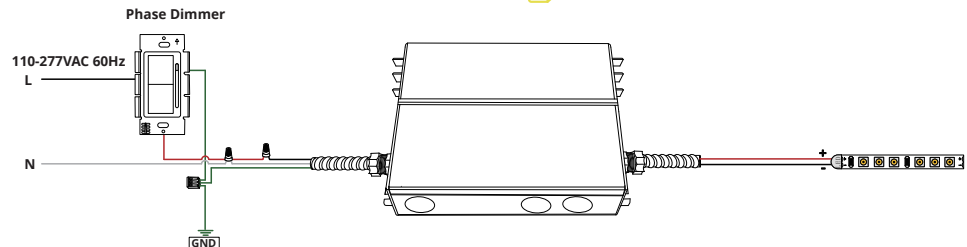
Connect pink wire (-) and purple wire (+) to dimmer, matching polarity. Secure wire compartment cover when completed.

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### Wiring Diagram

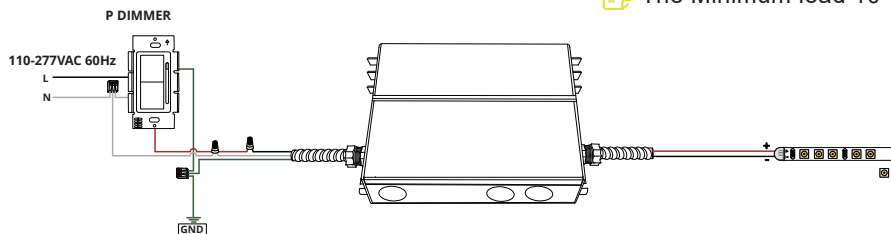
#### A. MLV TRIAC (Leading Edge) Dimmer Wiring Diagram

The Minimum load 10-100%



#### B. Electronic Low Voltage (ELV) Dimmer Wiring Diagram

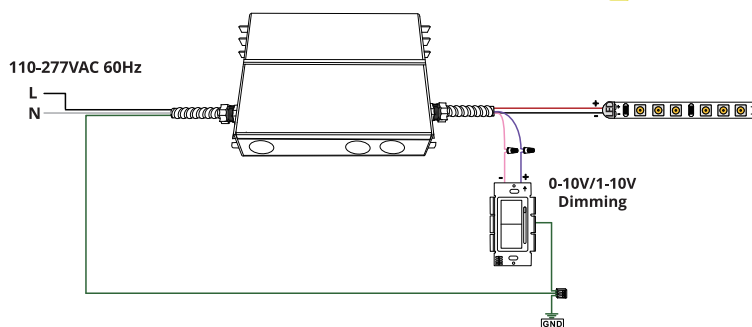
The Minimum load 10-100%



#### C. 0-10V/1-10V Dimmer Wiring Diagram

**(The driver is independently connected to the input.)**

The Minimum load 10-100%



#### D. 0-10V/1-10V Dimmer Wiring Diagram

**(The driver input is connected to the dimmer.)**

The Minimum load 10-100%

