

5-IN-1 DIMMABLE LED DRIVER

TRIAC / PHASE | 0-10V | 1-10V | POTENTIOMETER | 10V PWM



INSTRUCTION MANUAL

APPLIES TO: 12V: PS-5N1-1C1260-EVO (60W), PS-5N1-3C12180-EVO (180W).

24V: PS-5N1-1C2496-EVO (96W), PS-5N1-2C24192-EVO (192W), PS-5N1-4C24384-EVO (384W).

POWER & CONTROLS // 5-IN-1 DIMMABLE LED DRIVER

CONTENTS

The 5-IN-1 Dimmable LED Driver is offered in 12V and 24V options. These LED Drivers are sold individually as single units and include no accessories.



A 12V 5-IN-1 DIMMABLE LED DRIVER



B 24V 5-IN-1 DIMMABLE LED DRIVER



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTIFICATION

Input Voltage Range	100-277VAC
Input Frequency	50/60Hz
Output Voltage	12VDC Constant Voltage / 24VDC Constant Voltage
Working Temp	-40°F ~ 140°F (-40°C ~ +60°C) (see derating curve)
Inrush Current	See product specification sheet (www.evo-lite.com)

Maximum Load: Maintaining 10% headroom of power supply maximum load rating ensures product longevity.

// For product dimensions and a general list of compatible dimmers, please refer to the product's Specification Sheet.

⚠ PRECAUTIONS - BEFORE YOU BEGIN

Read all instructions before installing LED Driver.

This driver should only be installed by a qualified electrician. This driver is to be installed in accordance with Article 450 of the National Electric Code (N.E.C.), or the Canadian Electrical Code (CSA C22.1). Turn off all power at the source before any wiring or installation work takes place. Ensure that input voltage, output voltage, and wattage are appropriate for your application. Do not attempt to install product if there is any visible damage to it. Please visit the 5-IN-1 LED Driver website page for troubleshooting and additional support information.

MOUNTING

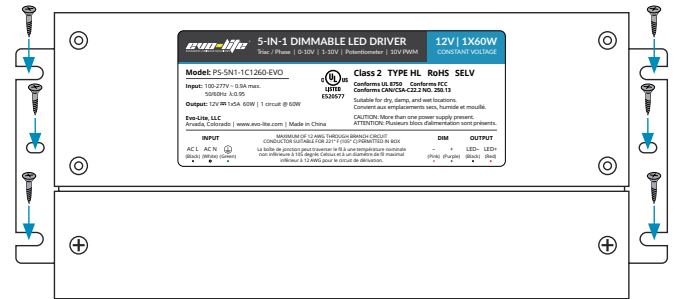
// This driver must be installed in a well-ventilated area free from explosive gases and vapors. Air circulation is essential for heat dissipation.

// Recommended spacing between LED drivers should be a minimum of 4" (10cm).

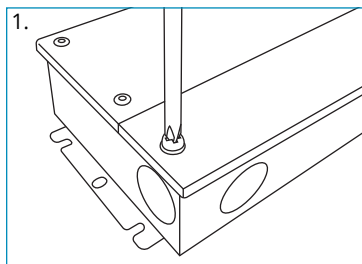
// Do not mount driver close to or above objects that can radiate heat. Vertical mounting is highly recommended.

// Select an appropriate location that is able to support the weight of the product.

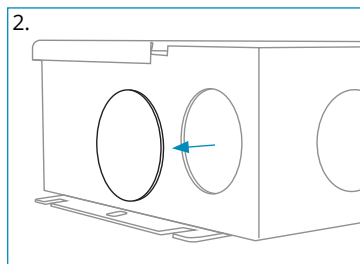
// Use the mounting tabs on the left and right side of the driver to mount the product.



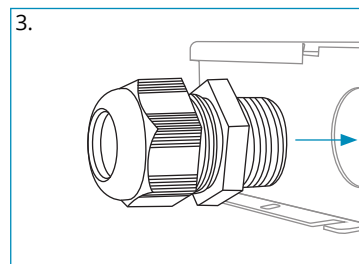
1. CONNECTION PREPARATION



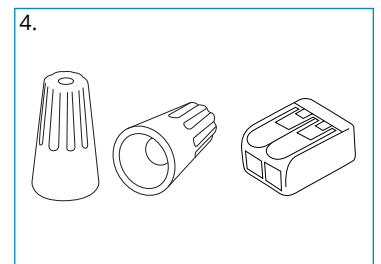
Open wire compartment by carefully removing both screws and their washers.



Remove the desired knockouts for both input and output.

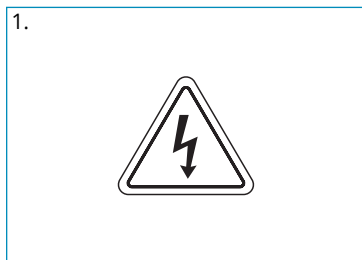


Install your choice of wire strain reliefs (not included). Use the appropriate sized wire gauge and connectors.

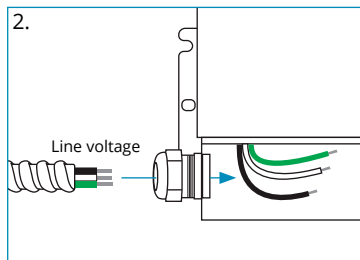


Only used certified components in accordance with national and local electric codes.

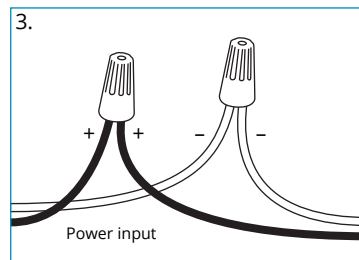
2. INPUT CONNECTIONS & GROUNDING



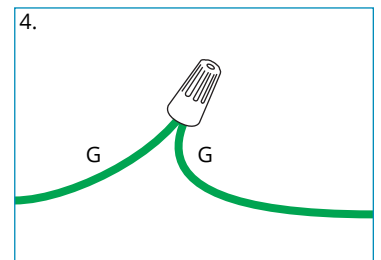
Ensure power is disconnected at the source



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



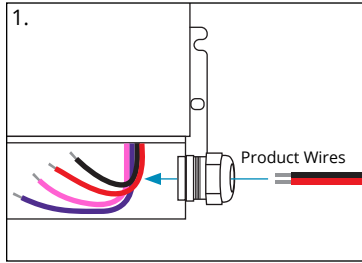
Connect black input wire (+) and white input wire (-) to line voltage, matching polarity.



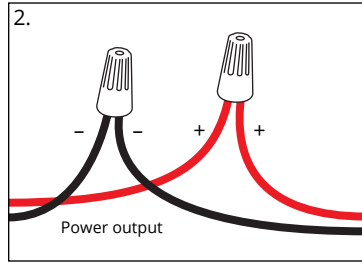
Connect green wire (ground) to input ground wire.

3. OUTPUT CONNECTIONS

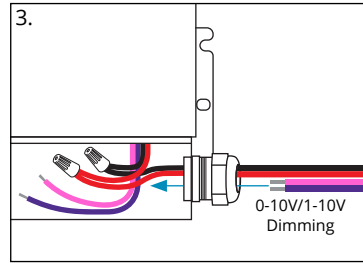
- // Do not simultaneously connect two dimming controllers. For example: do not connect both PWM low voltage and TRIAC dimmers at the same time.
- // The 0-10V/1-10V dimming wires (output pink and purple) should be capped if they are not being used.
- // When using multi-circuit LED drivers, note that all output channels dim simultaneously. Separate output channels cannot be dimmed individually.



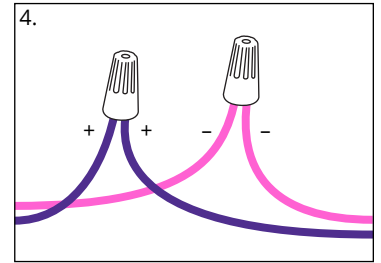
Route low voltage product wires through strain relief and knockout.



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



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

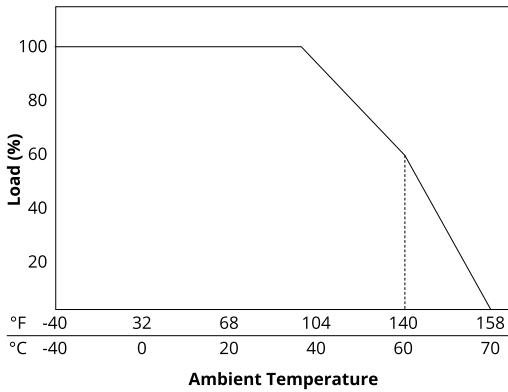


Connect pink wire (-) and purple wire (+) to dimmer, matching polarity. Secure wire compartment cover when completed.

Note: some LED drivers may have grey (-) and purple (+) wires.

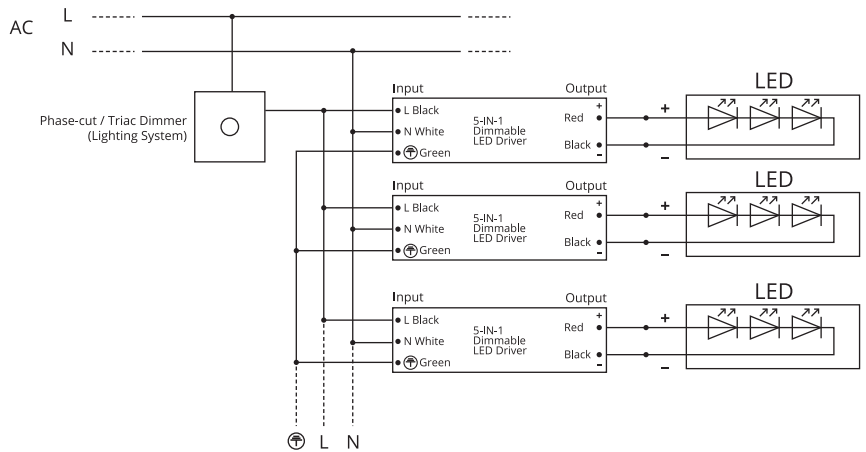
DERATING CURVE

To extend life, please refer to the Derating Curve and derate according to the temperature.



TRIAC / PHASE CUT DIMMING

1. The Pulse-Width Modulation (PWM) of the output voltage can be adjusted through the input terminal of the AC phase line (L) by connecting a Phase / Triac dimmer to the lighting system.
2. Compatible with Forward Phase / Leading Edge, MLV, and Reverse Phase / Trailing Edge, ELV, and TRIAC dimmers.
3. Minimum loading is about 10%
4. It is advised to use dimmers with power ratings of at least 1.5 times the output power of the driver.



0-10V / 1-10V DIMMING

