

INSTRUCTION

Triac/Phase, 0-10V, 1-10V, Potentiometer, 10V PWM 5 in 1 Dimming

Before you begin, read all warnings and installation instructions thoroughly.

Safety & Warnings

- Install in accordance with the National Electric Code, and local regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- Only install compatible LED fixtures & controls. Only use copper wiring.
- Proper heat dissipation will prolong the working lifespan of this product. Install in a well-ventilated area free from explosive gases and vapors.
- Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires, and cause a fire.
- Do not install if product has any visible damage.
- Do not modify or disassemble this product beyond instructions or the warranty will be void.

Installation

Prior to installation, ensure all components are a compatible system. Configure and pre-test your LED system prior to permanent installation to ensure all components are operating correctly. Install in accordance with the NEC and local regulations.

01/ Turn OFF High Voltage AC Power at the main breaker

 **WARNING** Shock Hazard. May result in serious injury or death. Turn off power at circuit breaker before installing this product.

02/ Determine Locations to Install 3 Main Components Refer to the 'System Diagrams'.



1) Compatible Control



2) Driver



3) Fixture

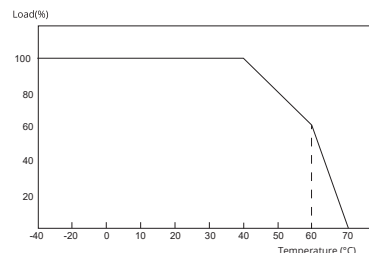
Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.).

03/ Mount Driver to Surface. See 'Wiring Connections' for mounting holes. Driver may be mounted in flat side and vertical side.

04/ Attach Lighting Load and Control. Only use copper wiring. Refer to 'Wiring Connections', 'System Diagrams', and dimming control installation guides.

- a. When installing in ambient temperatures that may reach over 40°F, refer to the 'Derating Curve' to avoid overheating and damage to the driver.

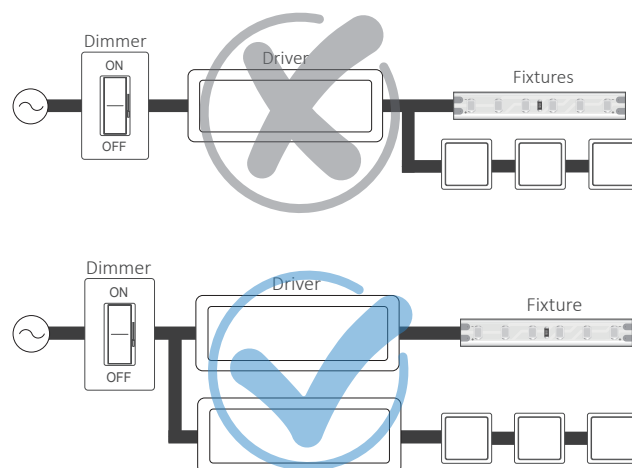
DERATING CURVE



- b. **Indoor/Dry Location Models** - Remove cover ports with phillipshead screwdriver. Use a mini Phillips or flathead screwdriver for attaching wires to terminal ports. Terminals fit up to 12AWG solidcore copper wire.

Outdoor/Wet Location Models - Use applicable UL Listed wire nuts and junction box to secure wire connections.

- c. **Do not install different fixture types on the same power supply** as flickering and altered dimming range may occur.



Different fixture types on separate drivers.

05/ Install Additional Components, Verify connections, and Turn Main Power ON at Breaker.

If system remains unresponsive or is working improperly, turn OFF main power at breaker and verify all connections. Review the 'Wiring Connections', 'System Diagrams', and dimming control installation guides.

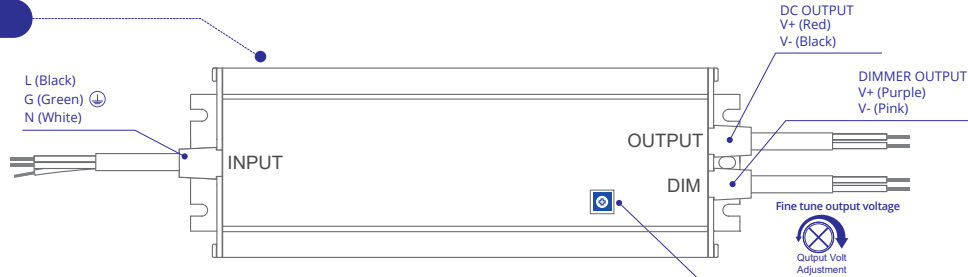
Wiring Connections

LMFV-P Series

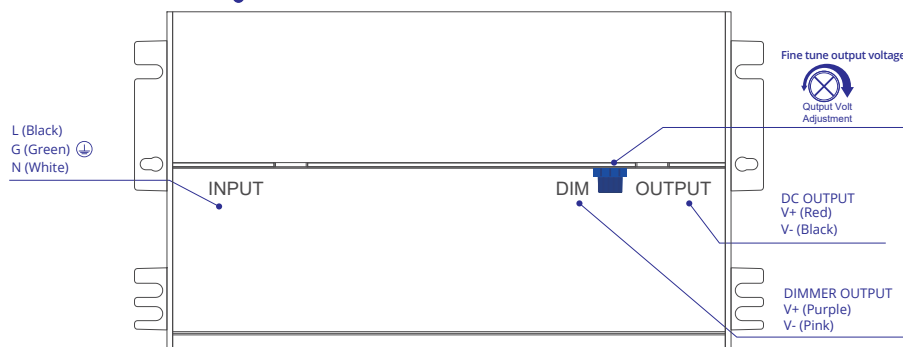
Dry/Indoor location drivers don't require a framed ground connection. When utilizing 3-conductor cables, trim ground wire to sheathing. Ensure wire sheathing is set on top of wire strain relief once cover ports are reattached.



LMFV-A Series



LMFV-P Series



Troubleshooting

● Input Voltage

See 'System Diagram', 'Wiring Connections' and installation guides of all components. Ensure the system is wired correctly and polarities are correct.

Ensure a compatible constant voltage dimmable fixture is installed. Ensure the driver and fixture have the same voltage specifications (12V & 12V, or 24V & 24V).

● Fixture does not dim

Ensure a compatible constant voltage dimmable fixture is installed. Ensure a compatible dimming control is installed and wired correctly.

● Different fixture types do not dim in sync

Different fixture types have different circuit designs and may react differently when dimmed. Ensure each fixture type is installed on a separate dimmable driver for best performance.

● Fixture is quickly flashing or flickering

Verify a compatible dimming control is installed. If flickering is apparent at low light levels install a compatible trim-adjustable dimming control.

Ensure a compatible constant voltage dimmable fixture is installed. Ensure different fixture types are not connected to a single driver. Different fixture types must be connected to individual drivers. Ensure all connections are properly secured. Ensure fixture is receiving the correct input voltage.

● Fixture is slowly flashing

Ensure driver is not overloaded. An overloaded driver will cause the internal auto-reset to trip repeatedly.

● Installation Trips Main Breaker

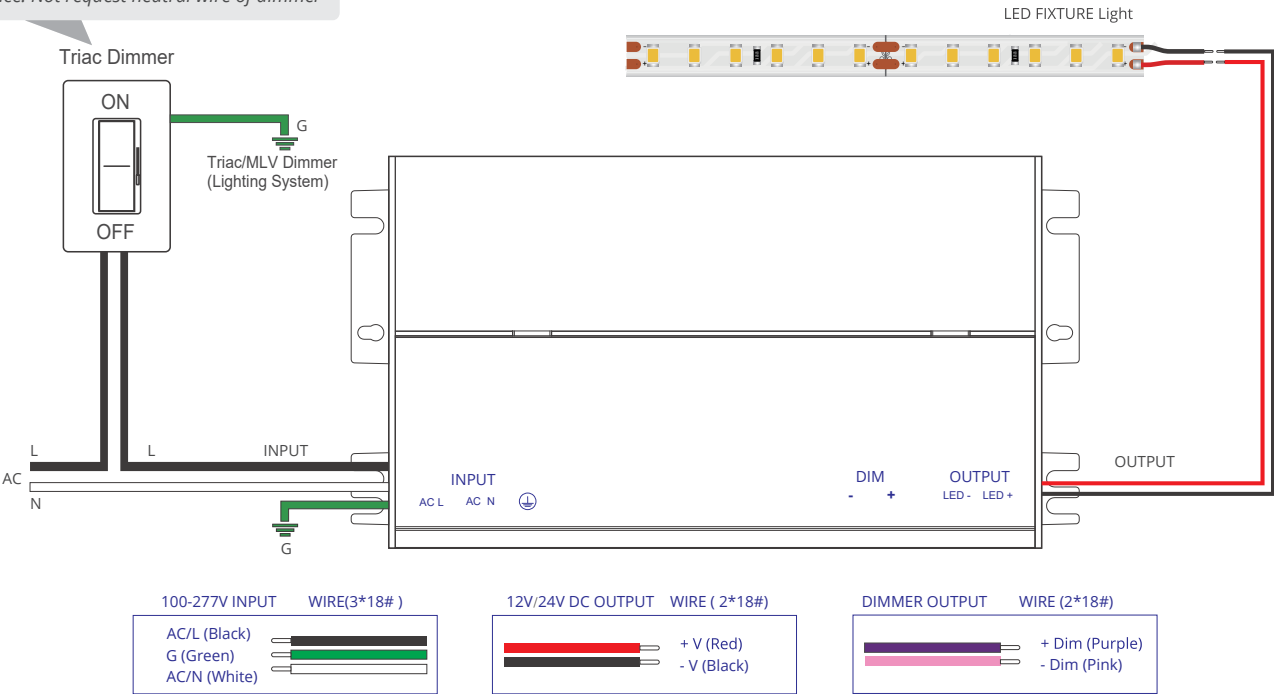
Check wiring for short circuit. If breaker continues to trip there may be a short in the driver. Call customer support for a replacement driver.

System Diagrams

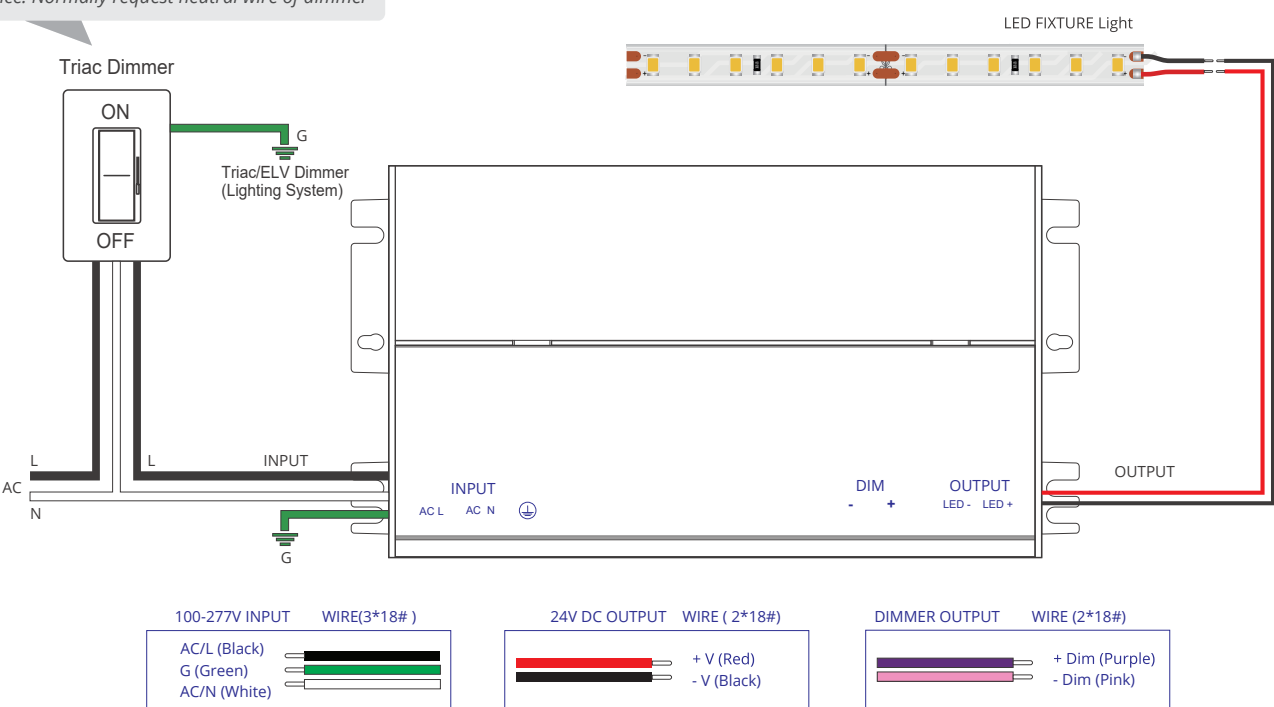
The following diagrams are provided as example system designs. Always review each component installation guide for detailed and up-to-date wiring instructions. Install in accordance with NEC and local regulations.

Standard System Diagram

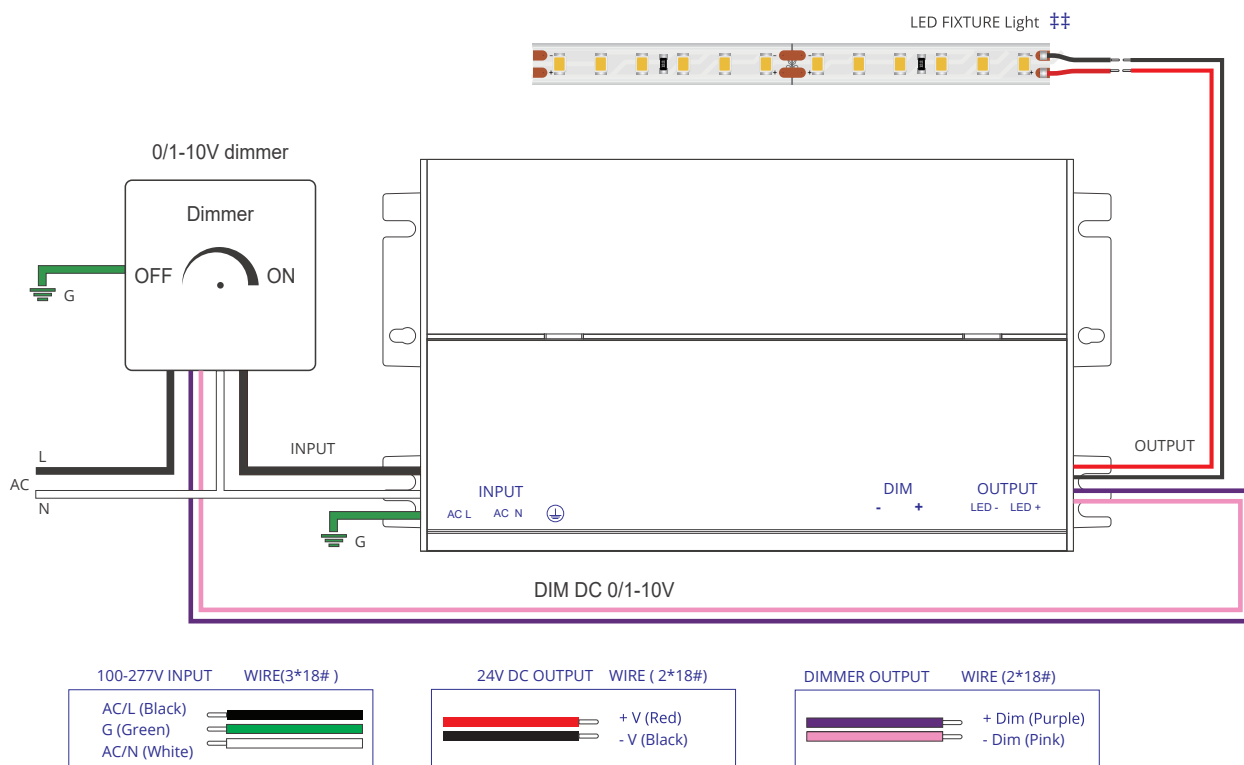
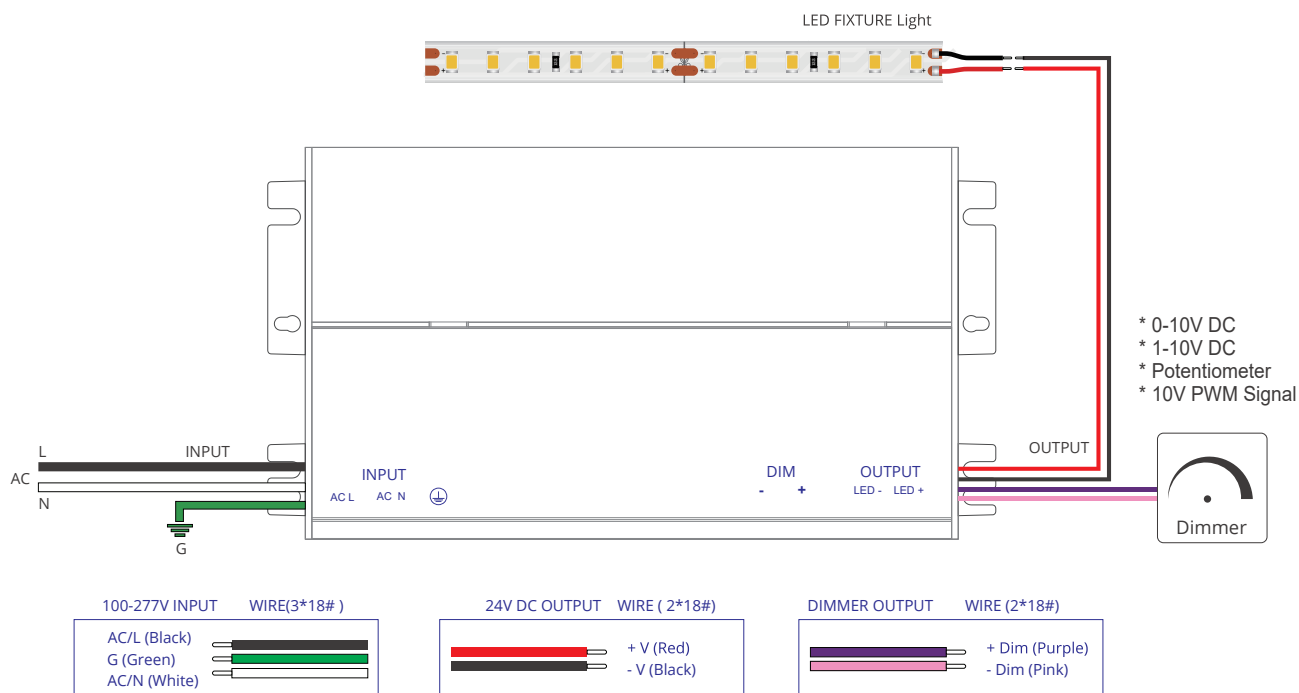
Triac dimming-MLV load tyfe
Notice: Not request neutral wire of dimmer



Triac dimming-ELV load tyfe
Notice: Normally request neutral wire of dimmer



0-10V Dimmable Driver System Diagram (Dimmer with No Power Pack)



****If utilizing power pack, refer to third party manufacturer's Instruction Guide.**

- * Driver may not require a framed ground connection. Refer to driver specifications for additional information.
- * Install a compatible dimming control or switch. See the dimming control manufacturer installation guide for complete wiring instructions.

‡ See fixture specifications for maximum series run limits.