



IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

When using electrical equipment, basic safety precautions should always be followed including the following:

- **DISCONNECT AC POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure that the electrical wiring conforms to the National Electrical Code NEC® and local regulations if applicable.
- Do not mount near gas or electrical heaters.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Any modification or use of non-original components will void the warranty and product liability.
- Do not use this equipment for other than intended use.

SAVE THESE INSTRUCTIONS!

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Precautions Before Installing

- Check the label and ensure the driver has the proper input voltage and wattage for the installation. Check the wire markings to ensure they match the wiring diagrams in the **Wiring Diagrams** section.
- 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.

Installation

1. Turn off the building power supply off at the main breaker.
2. Determine locations to install the compatible controller, driver and fixture. (Fig. 1)
 - Select a suitable location capable of supporting the weight of the driver.
 - Use the mounting holes on both ends when mounting. Driver may be mounted either horizontally or vertically.
3. Attach lighting load and controller only using copper wiring. Refer to the **Electrical Connections** and **Wiring Diagrams** section.
 - When installing in ambient temperatures that may reach above 40°F, refer to the Derating Curve section to avoid overheating and damage to the driver. (Fig. 2)
 - For indoor / dry locations use applicable UL Listed wire nuts and junction box to secure wire connections.
 - For outdoor / wet locations use applicable UL Listed wire nuts and junction box to secure wire connections.
 - Do not install different fixture types on the same power supply. Flickering and altered dimming ranges may occur. (Fig. 3)
4. Install additional components and verify connections. Turn building power supply on at main breaker.

NOTE: If system remains unresponsive or is working improperly, turn building power supply OFF and verify all connections. Review the **Electrical Connections** and **Wiring Diagrams** sections along with the dimming control installation guide (If applicable).

Fig. 1

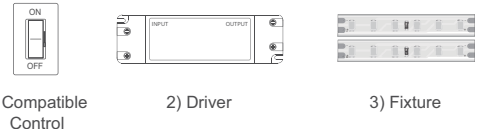


Fig. 2

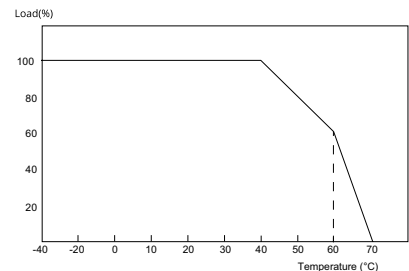
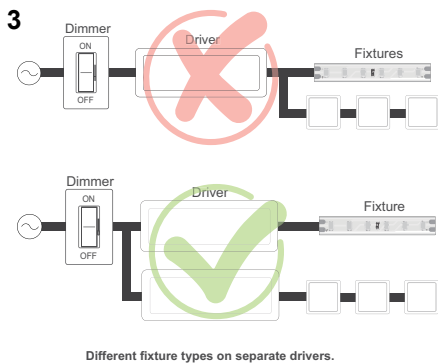


Fig. 3



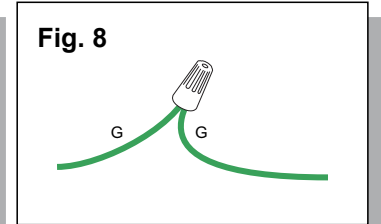
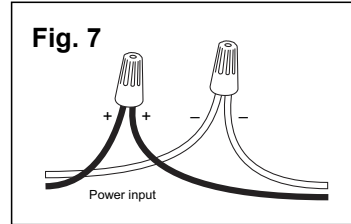
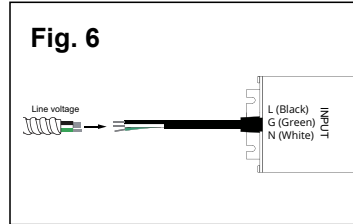
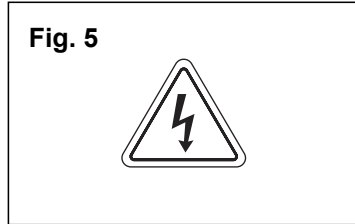
Electrical Connections

Fig. 4



Input Connections & Grounding:

1. Only use certified components in accordance with national and local electric codes.
2. Ensure power is disconnected at the source. (Fig. 5)
3. Route line voltage input wires and ground wire to appropriate connection location. (Fig. 6)
4. Connect black input wire (+) and white input wire (-) to line voltage, matching appropriately. (Fig. 7)
5. Connect green wire (ground) to input ground wire. (Fig. 8)

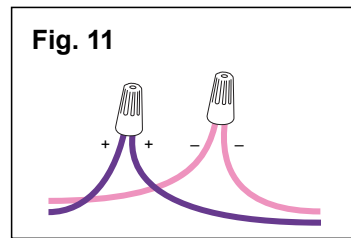
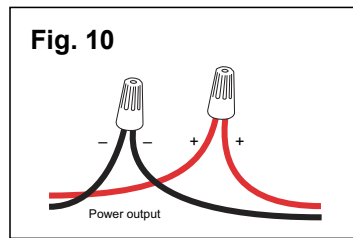
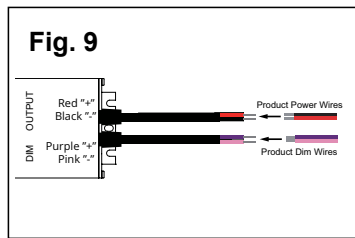


Output Connections:

1. Route low voltage product wires to appropriate connection location. (Fig. 9)
2. Securely connect driver's black wire (-) and red wire (+) to the low voltage product, making sure to match polarity. (Fig. 10)
3. Connect pink wire (-) and purple wire (+) to dimmer, making sure to match polarity. (Fig. 11)

NOTE:

- 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 (outputs 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.



Wiring Diagrams

Fig. 12 - TRIAC Dimming (MLV Load Type)

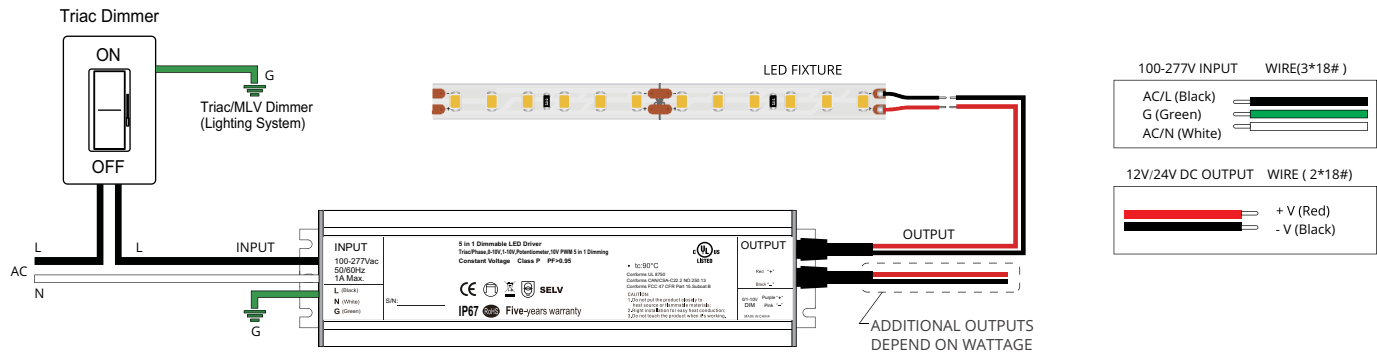


Fig. 13 - TRIAC Dimming (ELV Load Type)

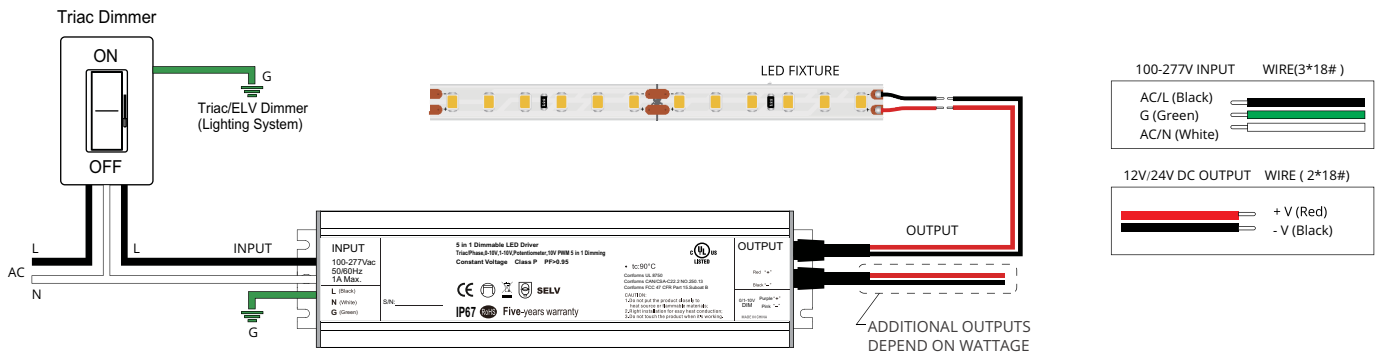
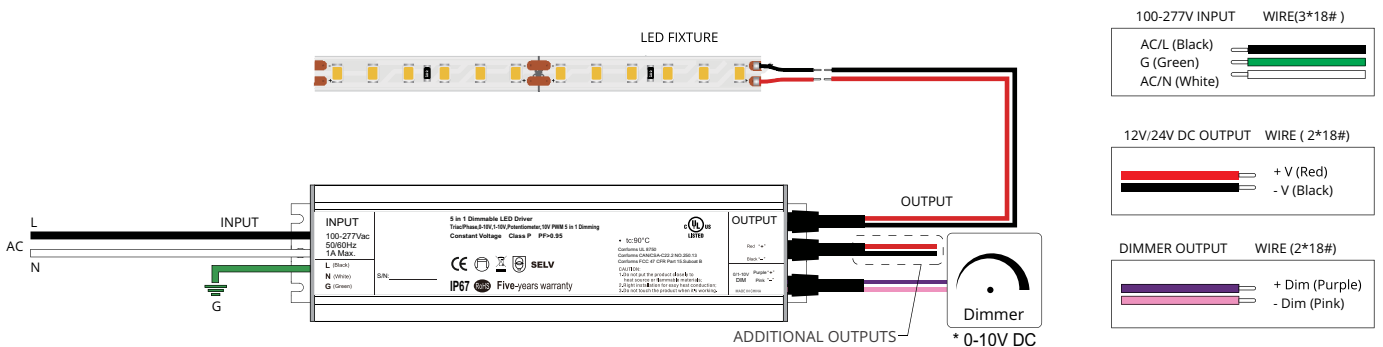


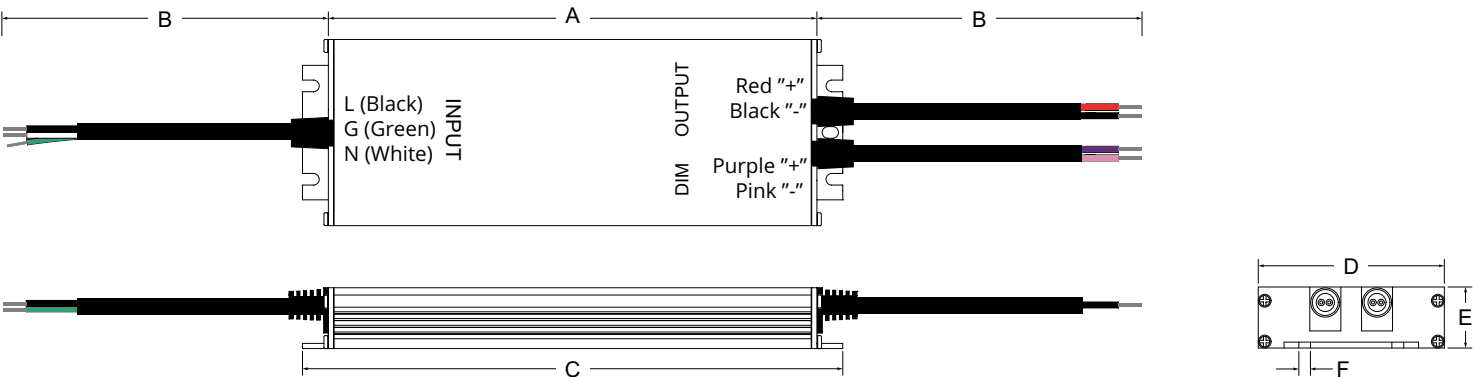
Fig. 14 - 0/1-10V Dimming



LLD Series

Installation Instructions

Dimensions



Dim.	30W	40W	60W	80W	96W	192W	288W	300W	384W
A	7.44" (189mm)			7.99" (203mm)		9.17" (233mm)	10" (255mm)		11.02" (280mm)
B	10" (255mm)								
C	8.23" (209mm)			8.77" (223mm)		10.22" (259.5mm)	11.08" (281.5mm)		11.02" (305.5mm)
D	1.77" (45mm)			2.52" (64mm)		3.07" (78mm)			
E	0.9" (23mm)			1.26" (32mm)		1.69" (43mm)	1.81" (46mm)		
F	0.18" (4.5mm)								