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## Installation Instructions for **3X96 Watt 24 Volt DC Power Supply Universal Dimming**



**SAVE THESE INSTRUCTIONS!**



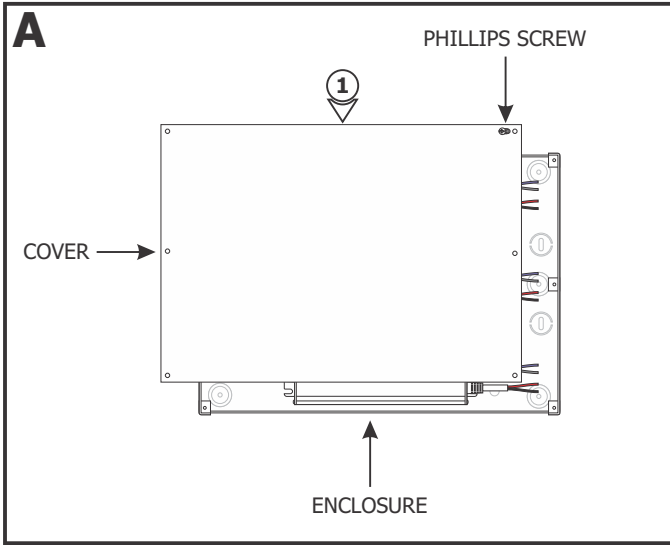
### GENERAL INFORMATION

- **RISK OF FIRE:** This product must be installed by a qualified electrician. Turn the power to the electrical box off during installation. Read the "Important Safety Instructions" before installation.
- **NOTE:** To avoid overheating the power supply, install it in a ventilated remote location where air flows. Maintain proper spacing among power supplies when multiple power supplies are installed in the same remote location.
- This product is not suitable for wet locations. It is approved for the use at any height above the finished floor.
- A typical installation is shown. Specific installation must be in accordance with the local electrical codes.
- **TO REDUCE RISK OF FIRE,** it is important to wire the power supply for the system as described in this installation instruction.
- Load each power supply to **MAXIMUM 96** Watts.
- For multiple parallel runs, do not exceed 32' total length.

### IMPORTANT SAFETY INSTRUCTIONS

- Do not install this power supply in a wet location.
  - To reduce the risk of the system overheating and possibly causing a fire, make sure all the connections are tight.
  - Do not install \*LED fixture closer than 3" or as specified in the \*LED fixture installation instructions to curtains or similarly combustible materials. Keep insulation at least 3" away from the enclosure.
  - Turn the electrical power off before modifying the lighting system in any way.
  - The system is "ETL" listed for USA and Canada only when all the products used are supplied by Edge Lighting.
- \*See LED fixture installation instructions for proper placement.

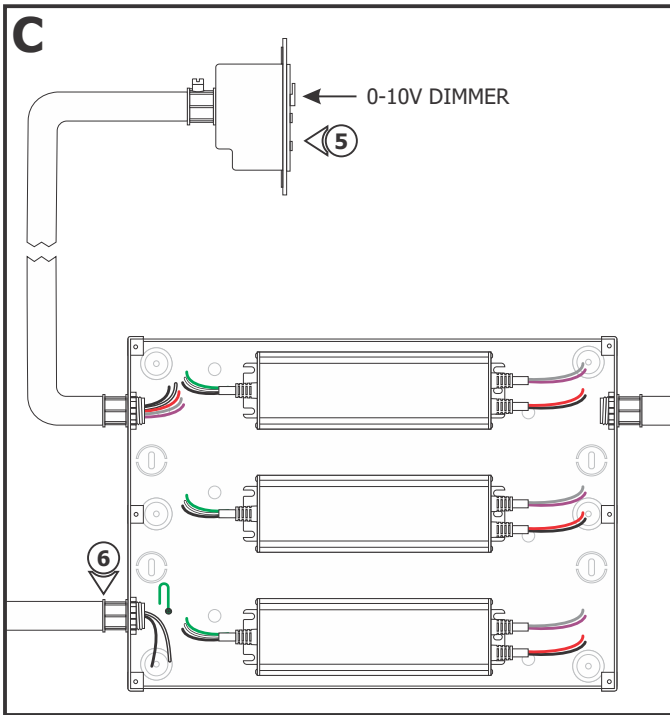
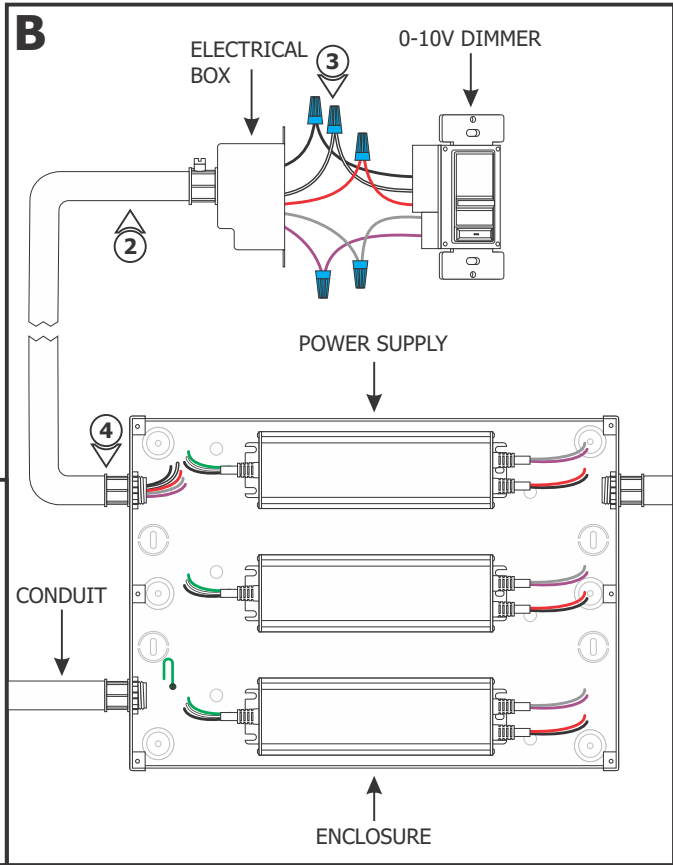
# Install the Power Supply



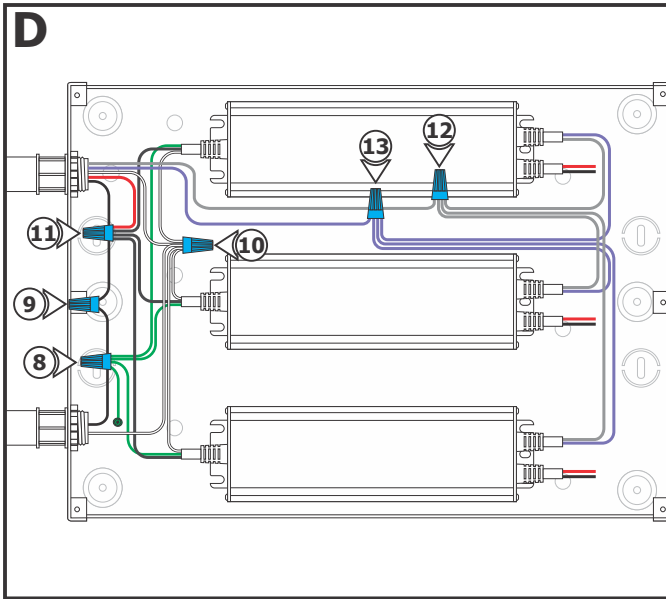
**1:** Remove the six Phillips screws to slide the cover off of the enclosure.

**NOTE:** Refer to wiring diagrams on page 4. Steps 2 through 13 show typical installation for 0-10V dimmers.

- 2:** Install conduits from the controller, main panel (line voltage) and soft strip or fixture to the power supply enclosure.
- 3:** Connect the black, white, red, purple and gray controller wires respectively to the black, white, red, purple and gray wires with a wire nut. For three way switching, refer to the instructions provided with the controller.
- 4:** Run the wires from the controller to the power supply enclosure.



- 5:** Secure the controller to the electrical box.
- 6:** Run the line voltage power wires from the panel to the power supply enclosure.
- 7: DO NOT** connect the power wires to the panel at this time.



**8:** Make sure the power supplies are grounded in accordance with local electrical codes.

**9:** Connect the black controller wire to the line voltage hot wire with a wire nut.

**10:** Connect the white controller wire to the line voltage neutral wire and white wire of each power supply with a wire nut.

**11:** Connect the red controller wire to the black wire of each power supply with a wire nut.

**NOTE:** For ELV dimming, cap the 0-10V wire ends with wire nuts. The 0-10V wires are not used.

**12:** Connect the gray controller wire to the gray wire of each power supply with a wire nut.

**13:** Connect the purple controller wire to the purple wire of each power supply with a wire nut.

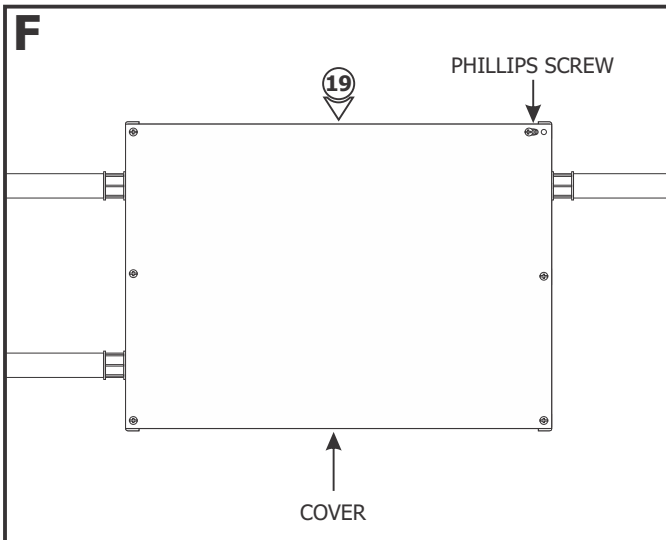
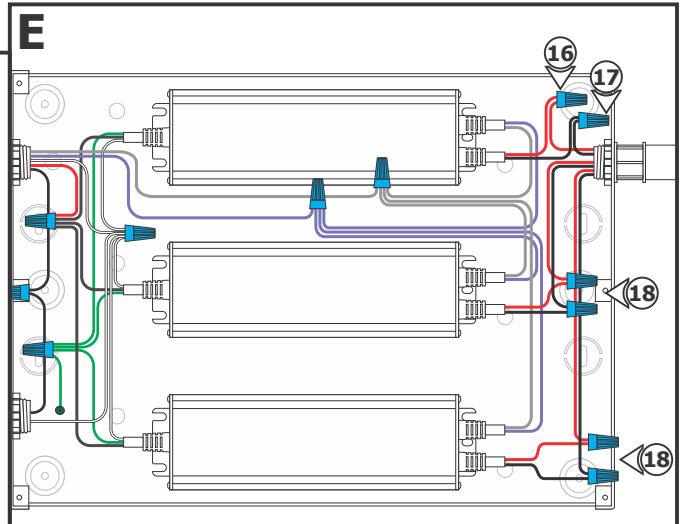
**14:** Use the "Low Voltage Wire Size Chart" on page 4 to determine the proper wire size connecting the power supply to the LED soft strip/fixture.

**15:** Run the proper size red and black wires from the LED soft strips/fixtures to the power supply enclosure.

**16:** Connect the red (+24VDC) wire from one power supply to the red wires of one LED soft strip/fixture with a wire nut.

**17:** Connect the black (-24VDC) wire from the same power supply to the black wires of the same LED soft strip/fixture with a wire nut.

**18:** Repeat steps 16 and 17 for the other power supplies and other LED soft strips/fixtures.



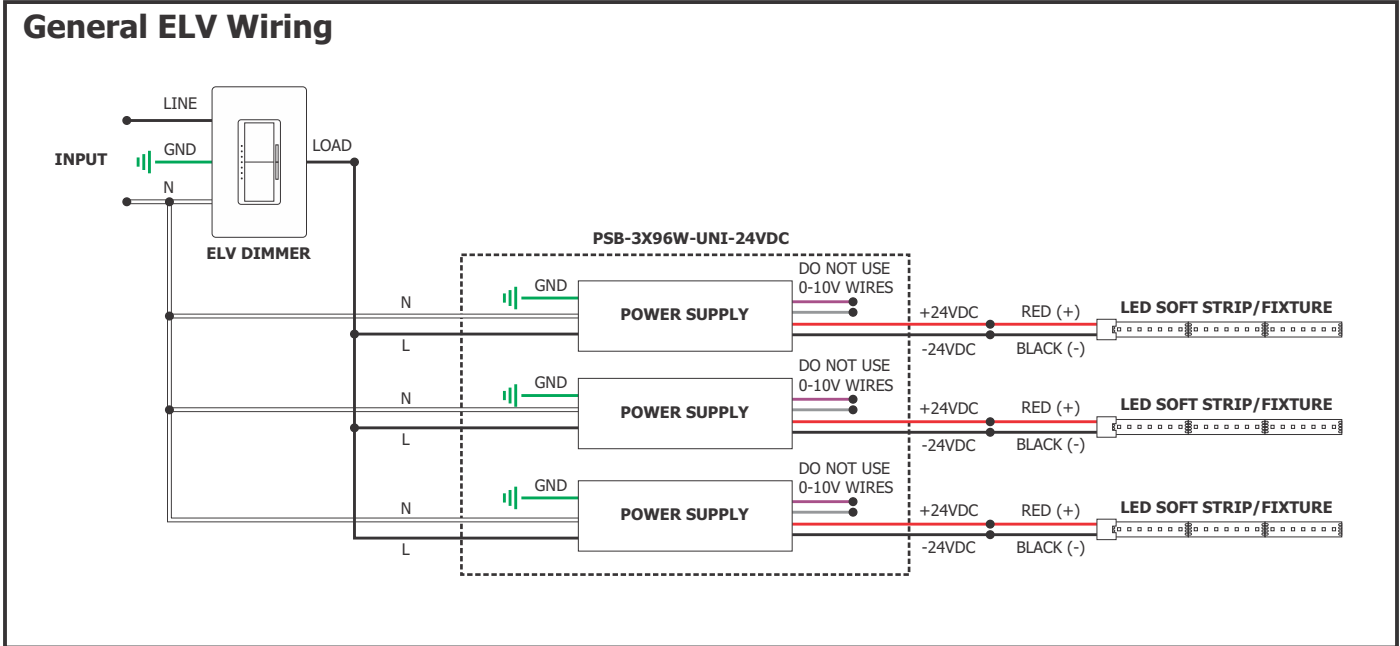
**19:** Replace the power supply cover and secure it by tightening the six Phillips screws.

## 96W, 24VDC LOW VOLTAGE WIRE SIZE CHART

<b>3% VOLTAGE DROP</b>	<b>WIRE LENGTH IN FT</b>	<b>UP TO 33FT</b>	<b>34FT - 52FT</b>	<b>53FT - 86FT</b>	<b>87FT - 130FT</b>
	<b>WIRE SIZE</b>	14 AWG	12 AWG	10 AWG	8 AWG
	<b>VOLTAGE AT END OF THE WIRE</b>	23.28 VDC	23.29 VDC	23.28 VDC	23.28 VDC

### Wiring Diagrams

#### General ELV Wiring



#### General 0-10V Wiring

