PURE EDGE
LIGHTING

Installation Instructions for **200 Watt 24 Volt DC Power Supply with 0-10 Volt Dimming Module**

C ETL US
LISTED
Intertek
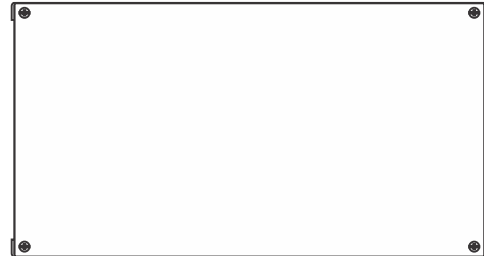
SAVE THESE INSTRUCTIONS!

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 the power supply to **MAXIMUM 200** Watts.

- Use Philips: Sunrise "SR1200TUNV" 0-10 volt controller to dim the LED soft strip (fixture).

- In accordance to the local electrical codes, Non-Class 2 ETL listed 200 watt power supplies require conduit between the power supply and the lighting fixture junction box.

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 three inches 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.
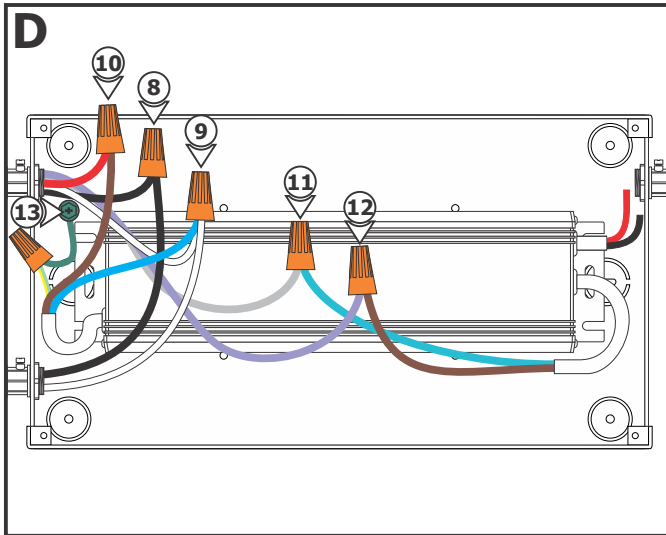
Install the Power Supply

A

COVER

PHILLIPS SCREW
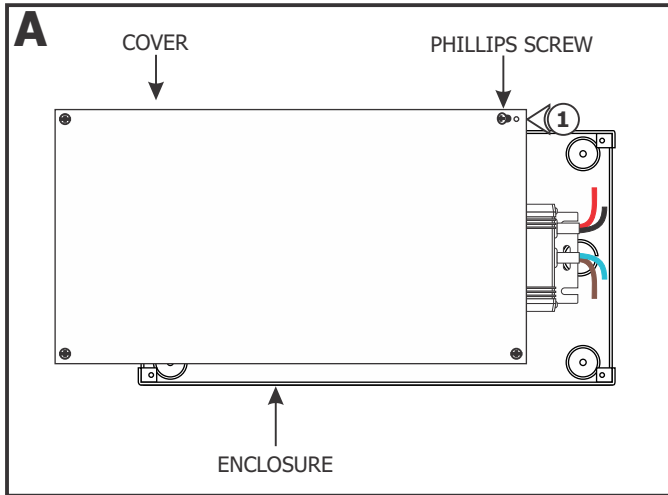
ENCLOSURE

1: Loosen and remove the four Phillips screws on the front of the power supply cover to remove the cover from the enclosure.

B

0-10V DIMMER

ELECTRICAL BOX

CONDUIT

POWER SUPPLY

2: Install conduits from the controller, main panel (line voltage) and soft strip 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. The yellow controller wire is not used in this procedure. Cap the yellow controller wire 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.

C

0-10V DIMMER

POWER SUPPLY

120 VOLT POWER LINE WIRES
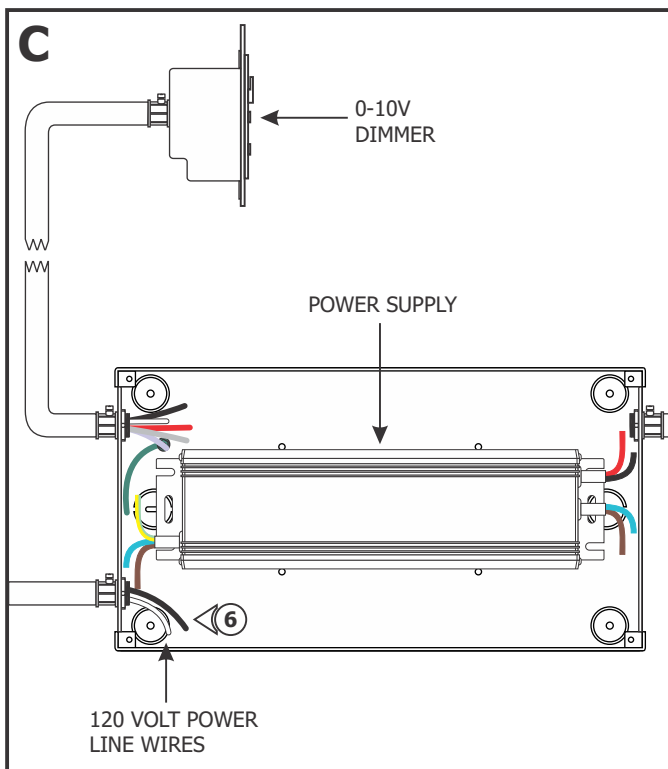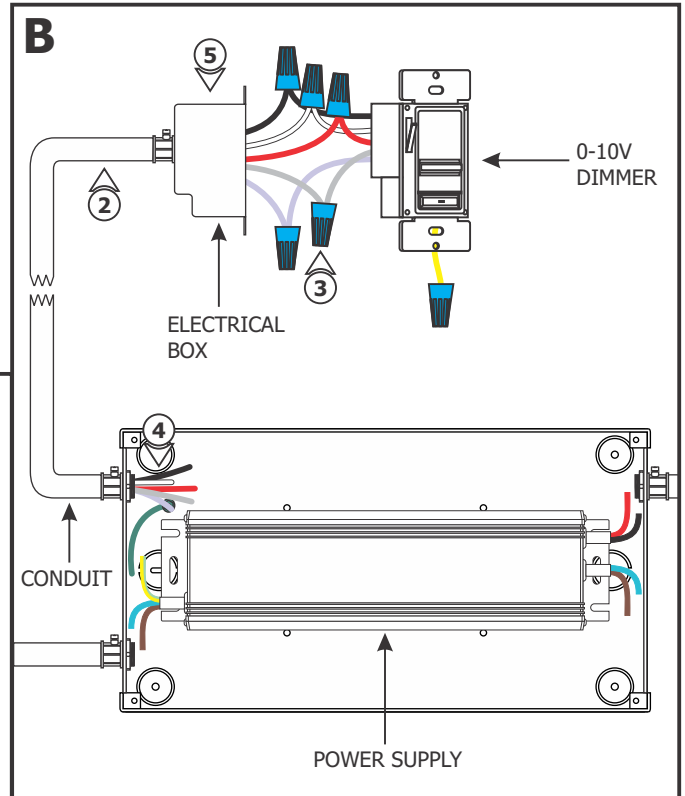
6: Run the 120 volt power line wires from the panel to the power supply enclosure.

7: DO NOT connect the power wires to the panel at this time.

D

8: Connect the black controller wire to the 120 volt hot wire with a wire nut.

9: Connect the white controller wire to the 120 volt neutral wire and the blue neutral wire from the power supply with a wire nut.

10: Connect the red controller wire to the brown hot wire from the power supply with a wire nut.

11: Connect the gray controller wire to the blue 0-10V wire from the power supply with a wire nut.

12: Connect the purple controller wire to the brown 0-10V wire from the power supply with a wire nut.

13: Make sure the power supply is grounded in accordance with local electrical codes.

E
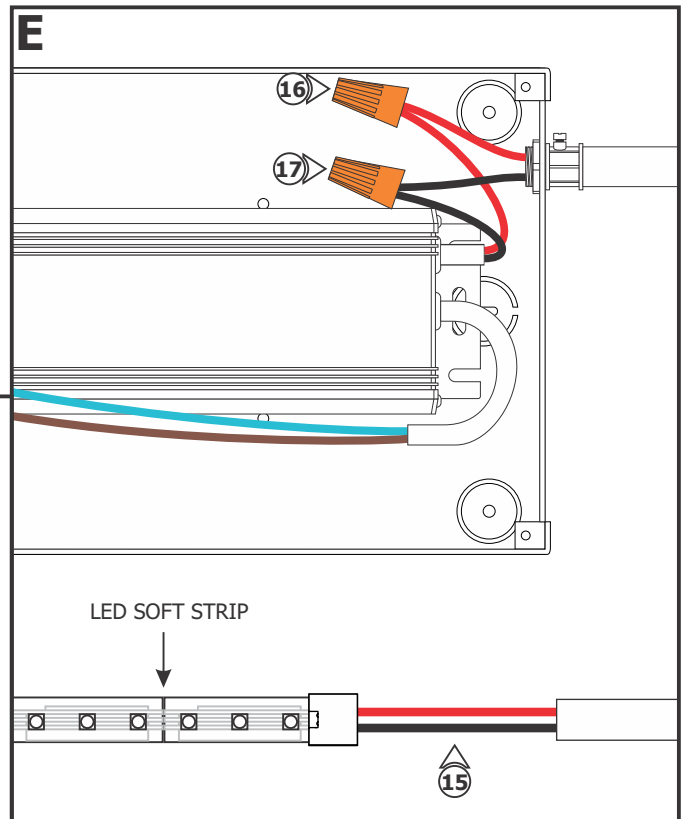
LED SOFT STRIP

NOTE: Use only 24 volt LED soft strip with this power supply.

14: Use the "Low Voltage Wire Size Chart" below to determine the proper wire size connecting the power supply to the LED soft strip.

15: Run the proper size red and black wires from the LED soft strip to the power supply enclosure.

16: Connect the red wire from the power supply to the red wires of the LED soft strip with a wire nut.

17: Connect the black wire from the power supply to the black wires of the LED soft strip with a wire nut.

200W, 24VDC LOW VOLTAGE WIRE SIZE CHART					
3% **VOLTAGE DROP**	**WIRE LENGTH IN FT**	**UP TO 16FT**	**17FT-24FT**	**25FT-41FT**	**42FT-62FT**
	WIRE SIZE	14 AWG	12 AWG	10 AWG	8 AWG
	VOLTAGE AT END OF THE WIRE	23.28 VDC	23.29 VDC	23.28 VDC	23.28 VDC

F

COVER

PHILLIPS
SCREW

18

19
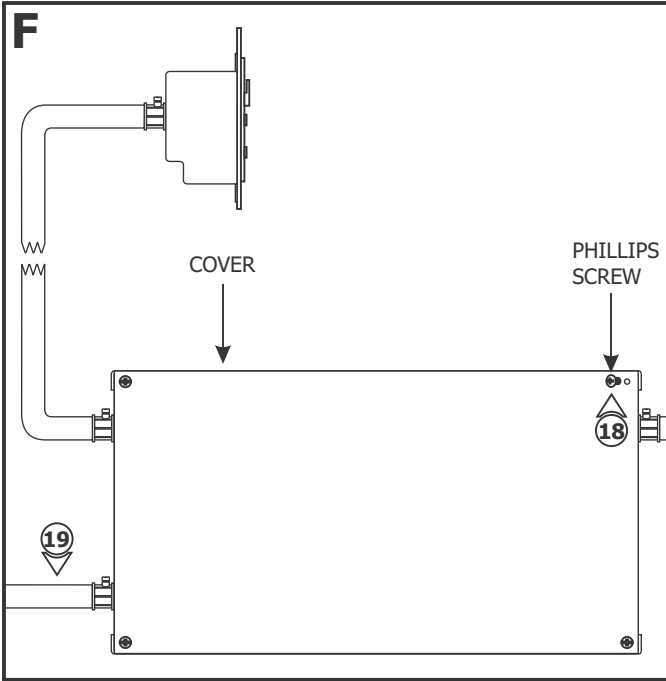
18: Replace the power supply cover and secure it by tightening the four Phillips screws.

19: At this time, connect the 120 volt wires to the circuit box panel.

Overall Wiring Diagram

0-10V DIMMER

GRAY 0-10V

PURPLE 0-10V

RED 120VAC (HOT)

GND

BLACK (HOT)

WHITE (NEUTRAL)

PSB-200W-010-24VDC

GND

POWER SUPPLY

BROWN (HOT)

BLUE (NEU)

BLUE 0-10V

BROWN 0-10V

RED (+24VDC)

BLACK (-24VDC)

LED SOFT STRIP

INPUT
120-277
VAC