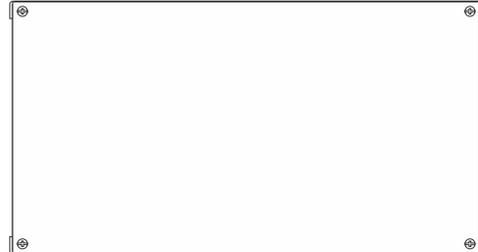




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Installation Instructions for **100 Watt 24 Volt DC Tunable White DMX LED Power Supply**



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 100** Watts.
- Use CDMX touch controller with Tunable White LED soft strip.

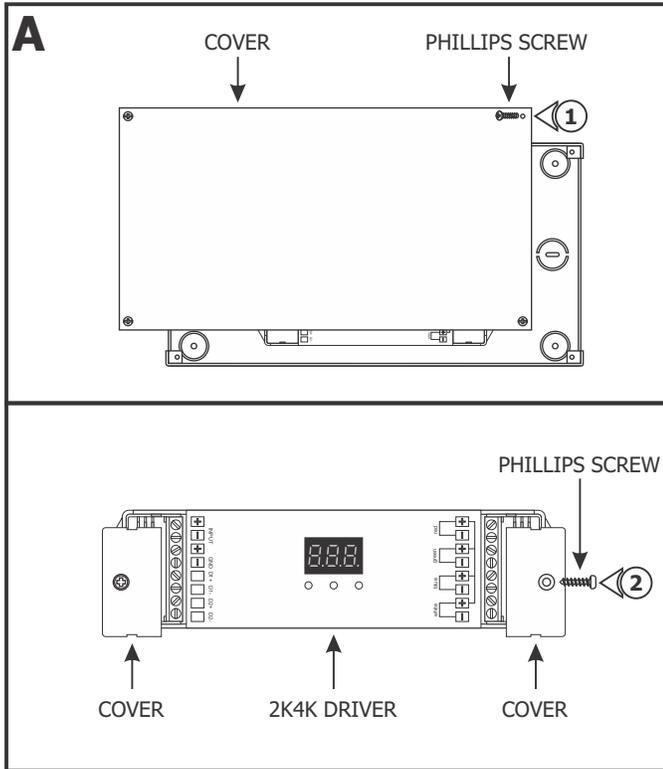
IMPORTANT SAFETY INSTRUCTIONS

- 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.
- * See LED fixture installation instructions for proper placement.

100W, 24VAC LOW VOLTAGE WIRE SIZE CHART

3% VOLTAGE DROP	WIRE LENGTH IN FT	UP TO 31FT	32FT-49FT	50FT-81FT	82FT-124FT
	WIRE SIZE	14 AWG	12 AWG	10 AWG	8 AWG
	VOLTAGE AT END OF THE WIRE	23.28 VAC	23.29 VAC	23.28 VAC	23.28 VAC

Using LED Power Supply with Tunable White Soft Strip & CDMX Controller



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

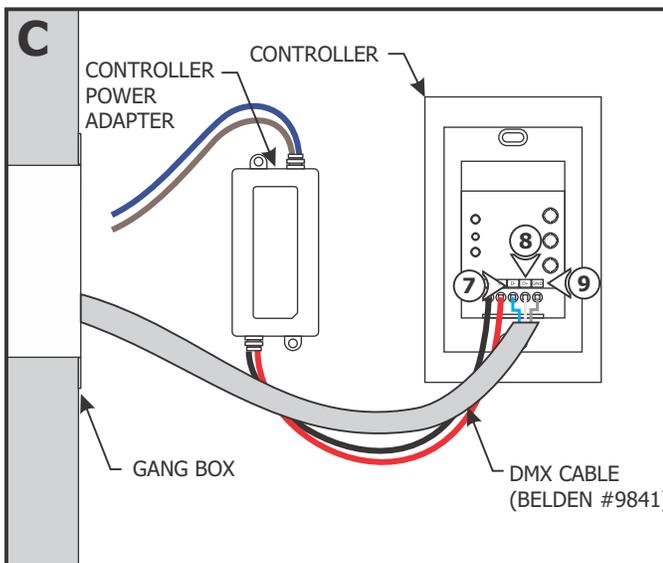
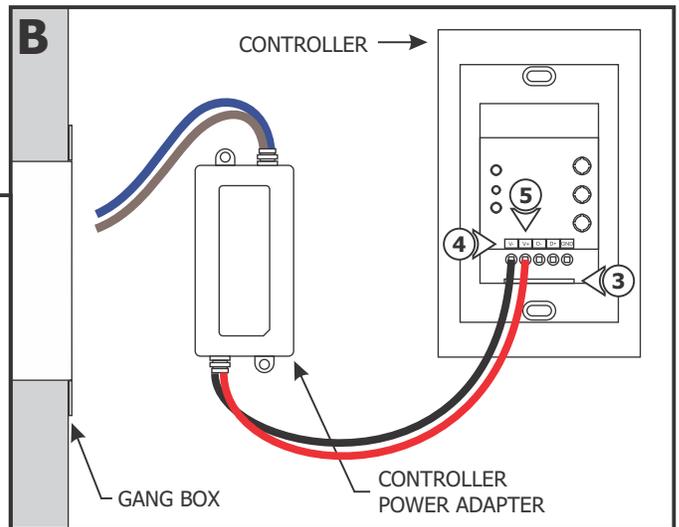
2: Loosen the two Phillips screws on the driver to remove the cover.

NOTE: Use a deep single gang box to fit the controller and controller power adapter.

3: Loosen the screws under the "V-" and "V+" terminals of the controller with a flat head screw driver.

4: Insert the black wire of the controller power adapter into the "V-" terminal and tighten the screw.

5: Insert the red wire of the controller power adapter into the "V+" terminal and tighten the screw.

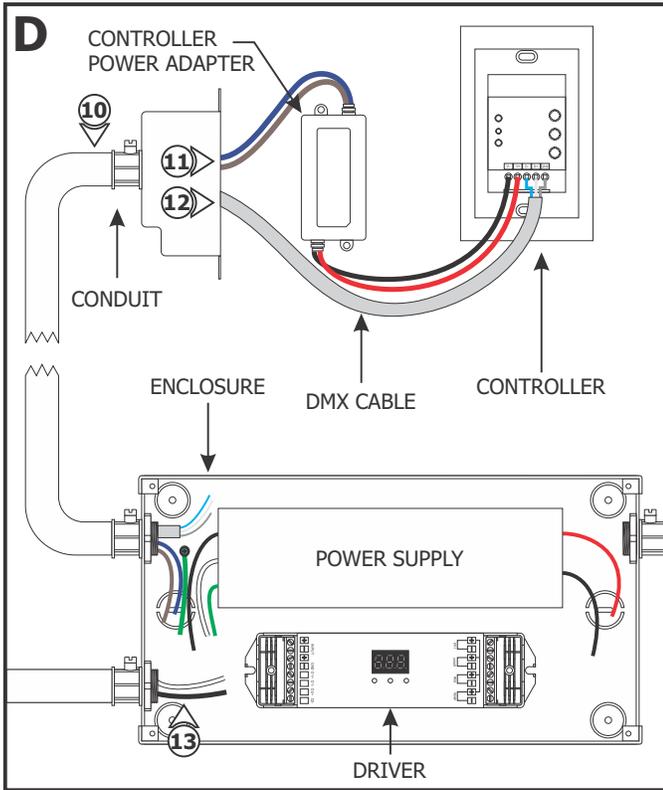


6: Loosen the screws under the "D-", "D+" and "GND" terminals of the controller with a flat head screw driver.

7: Insert one data wire (blue with white stripes wire) into the "D-" terminal and tighten the screw.

8: Insert the second data wire (white with blue stripes wire) into the "D+" terminal and tighten the screw.

9: Insert the third data wire (bare shield wire) into the "GND" terminal and tighten the screw.

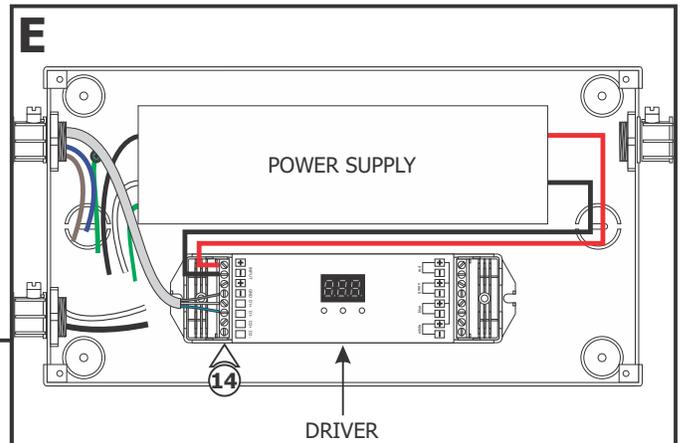


10: Install conduits from the controller, main panel (line voltage), and LED strip to the power supply enclosure.

11: Run the blue and brown line voltage wires coming from the controller power adapter to the power supply enclosure.

12: Run the proper size DMX cable (**Belden #9841 recommended**) with three data wires from the controller to the power supply enclosure.

13: Run the line voltage power wires to the power supply enclosure.



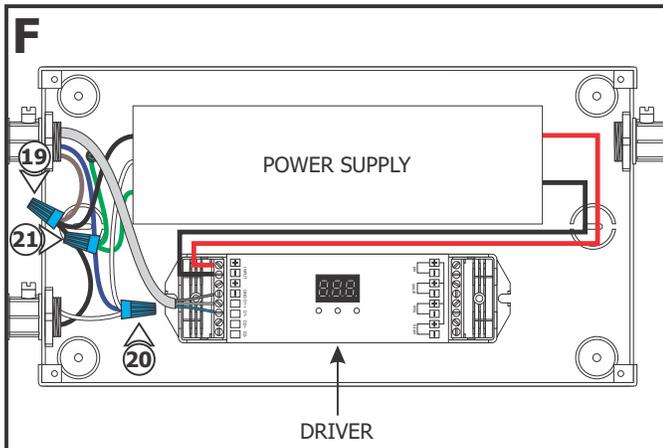
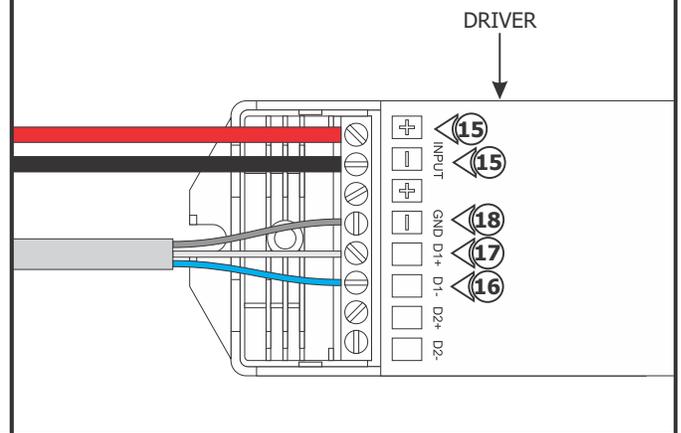
14: Loosen the screws on the "+ INPUT," "-INPUT," "GND," "D1+" and "D1-" terminals of the DMX driver with a flat head screw driver.

15: Insert the red wire from the power supply into the "+ INPUT" DMX terminal and tighten the screw. Insert the black wire from the power supply to the "- INPUT" DMX terminal and tighten the screws.

16: Insert the end of the first data wire (blue with white stripes wire) into the "D1-" DMX terminal and tighten the screw.

17: Insert the end of the second data wire (white with blue stripes wire) into the "D1+" DMX terminal and tighten the screw.

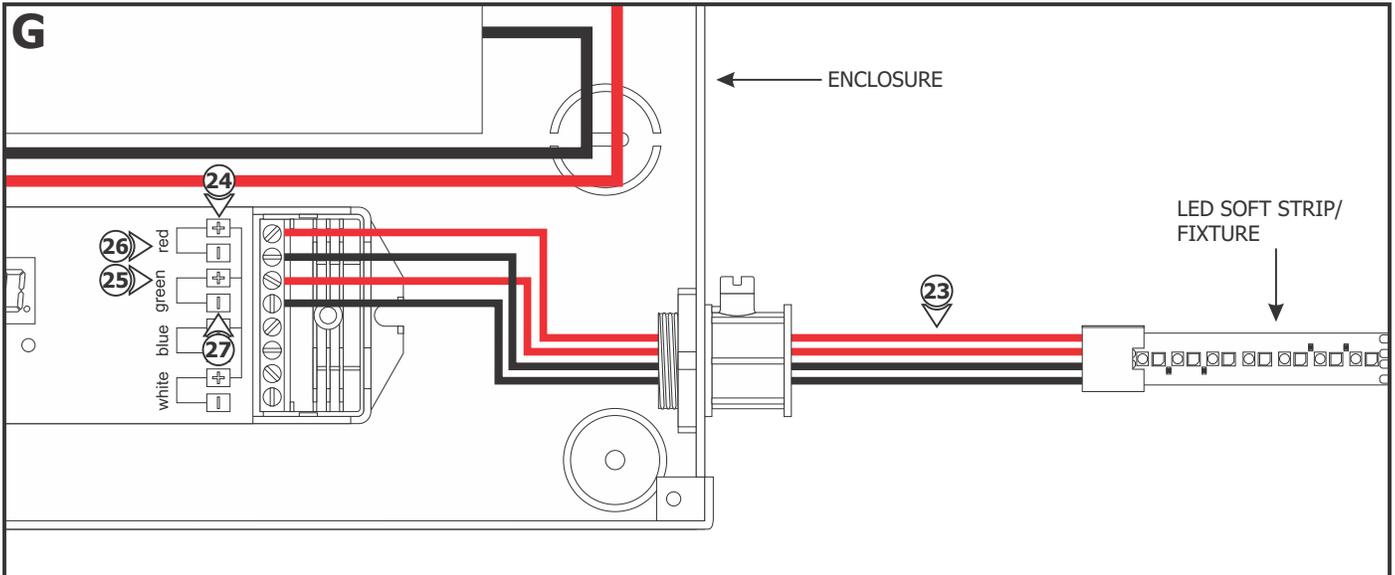
18: Insert the end of the third data wire (bare shield wire) into the "GND" DMX terminal and tighten the screw.



19: Connect the hot power wire to the black power supply wire and brown controller power adapter wire with a wire nut.

20: Connect the neutral power wire to the white power supply wire and blue controller power adapter wire with a wire nut.

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



NOTE: Do not exceed the maximum wattage of the power supply.

22: Use the "Low Voltage Wire Size Chart" on page 1 to determine proper wire size connecting to the DMX terminals.

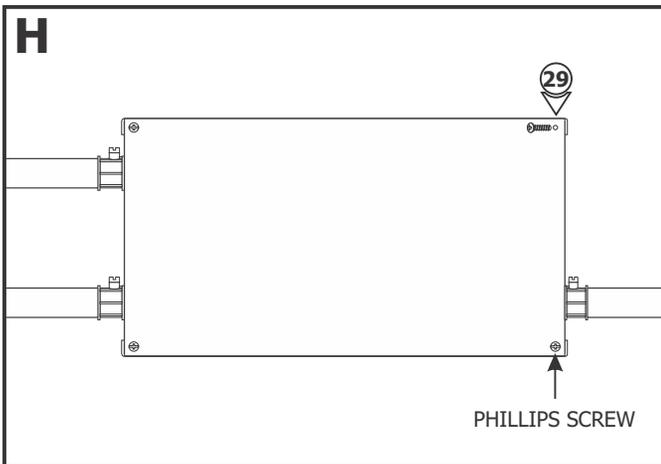
23: Run the proper size red and black wires from the Tunable White LED strip/fixture to the power supply enclosure.

24: Connect the first red wire of the LED strip/fixture to the red "+" DMX terminal and tighten the screw.

25: Connect the second red wire of the LED strip/fixture to the green "+" DMX terminal and tighten the screw.

26: Connect the first black wire of the LED strip/fixture to the red "-" DMX terminal and tighten the screw.

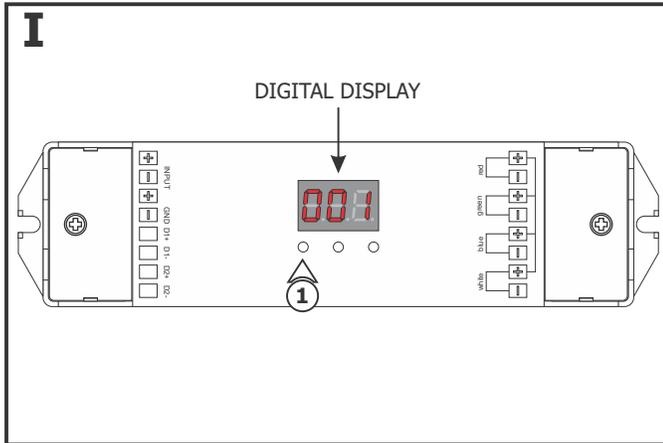
27: Connect the second black wire of the LED strip/fixture to the green "-" DMX terminal and tighten the screw.



28: Replace the covers on the DMX driver and secure by tightening the two Phillips screws.

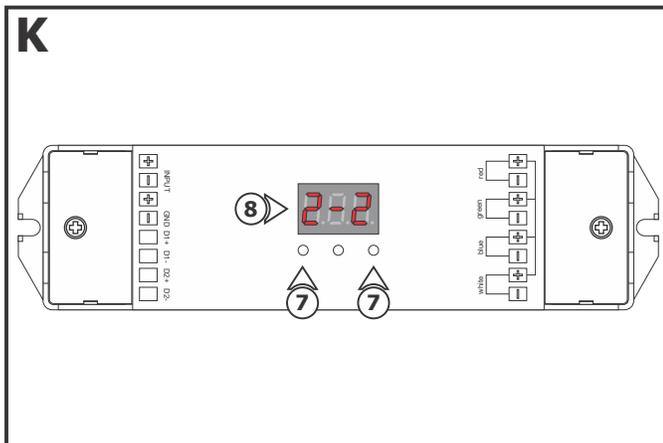
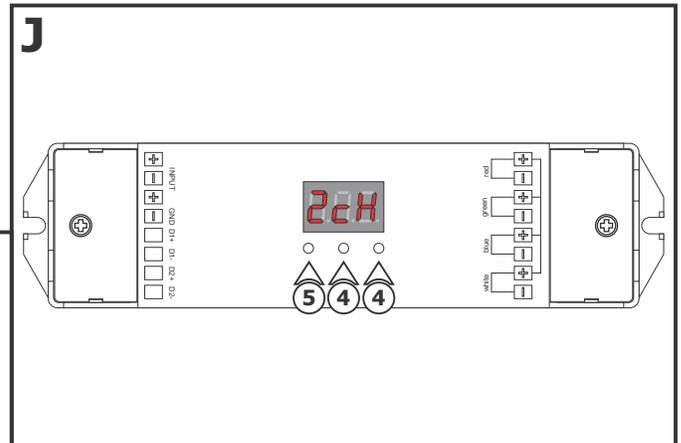
29: Replace the power supply cover and secure it by tightening the four Phillips screws.

Programming Guide



- 1:** Press and hold the first button for two seconds until the digital display flashes to choose a DMX address.
- 2:** Use the three buttons to set the DMX address.
- 3:** Press and hold any button for two seconds to confirm.

- 4:** Press and hold the second and third buttons at the same time for two seconds until the digital display flashes to choose a channel.
- 5:** Press the first button to toggle the channel to 2.
- 6:** Press and hold any button for two seconds to confirm.



- 7:** Press and hold the first and third buttons at the same time for two seconds until the digital display flashes to enter the PWM frequency settings.
- 8:** Press the first button and toggle to 2, meaning 200Hz. Press the third button and toggle to 2, meaning linear dimming.
- 9:** Press and hold any button for two seconds to confirm.

CDMX1-2XK WIRING DIAGRAM

