

1718 W. Fullerton Chicago, IL 60614 Ph: 773.770.1195 • Fax: 773.935.5613 www.PureEdgeLighting.com • info@PureEdgeLighting.com © 2016 PureEdge Lighting. All Rights Reserved.

Installation Instructions for 400 Watt 24 Volt DC RGB DMX **LED Power Supply**

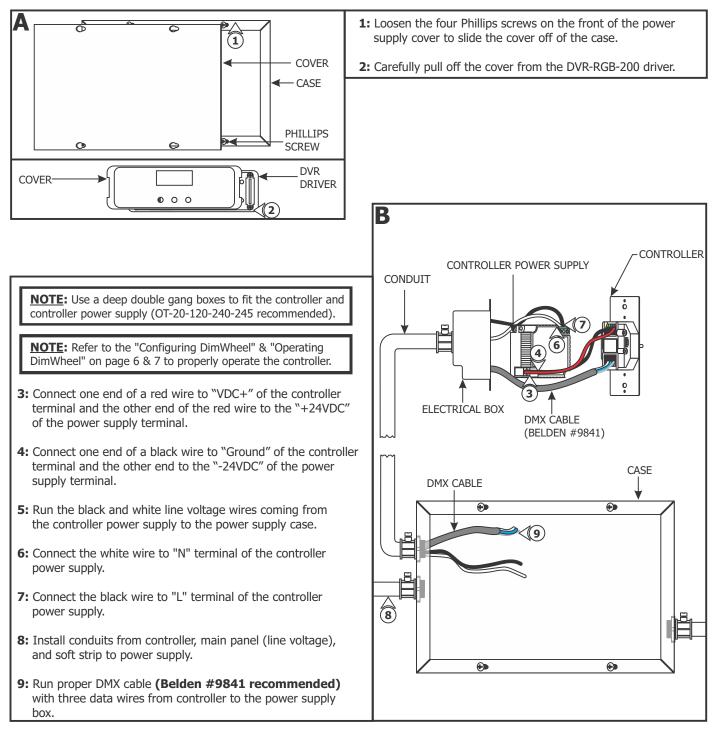
SAVE THESE INSTRUCTIONS!	© ©				
GENERAL INFORMATION	IMPORTANT SAFETY INSTRUCTIONS				
- <u>RISK OF FIRE</u> : This product must be installed by a qualified electrician. Turn the power to the electrical box off during installation. Read the "Important Safety Instructions " before installation.	 Do not 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. 				
- 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.	- 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.				
 This product is not suitable for wet locations. It is approved for the use at any height above the finished floor. 	- Turn the electrical power off before modifying the lighting system in any way.				
 A typical installation is shown. Specific installation must be in accordance with the local electrical codes. 	* See LED fixture installation instructions for proper placement.				
- 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 400 Watts.					
- Use CDP color dial or CTP color touch screen controller with RGB LED soft strip.					

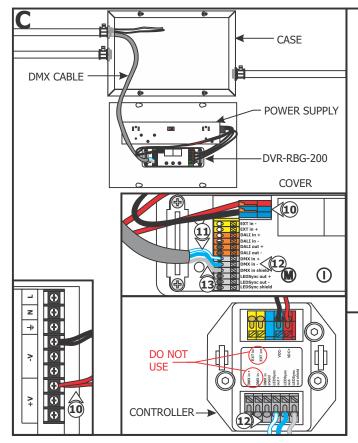
WARNING: This power supply is equipped with a cooling fan. Do not run the power supply in a dusty environment. All drywall finish and sanding must be done prior to using the power supply. Dust particles may stop the fan from working & eventually destroy the power supply.

	CHART					
3% VOLTAGE DROP	WIRE LENGTH IN FT	UP TO 12FT	13FT-20FT	21FT-30FT	31FT-47F	T 48FT-73FT
	WIRE SIZE	12 AWG	10 AWG	8 AWG	6 AWG	4 AWG
	VOLTAGE AT END OF THE WIRE	23.8 VAC	23.8 VAC	23.8 VAC	23.8 VAC	23.8 VAC

100W, 24VAC LOW VOLTAGE WIRE SIZE CHART (PER RUN)									
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	23.3 VAC	23.3 VAC	23.3 VAC	23.3 VAC				

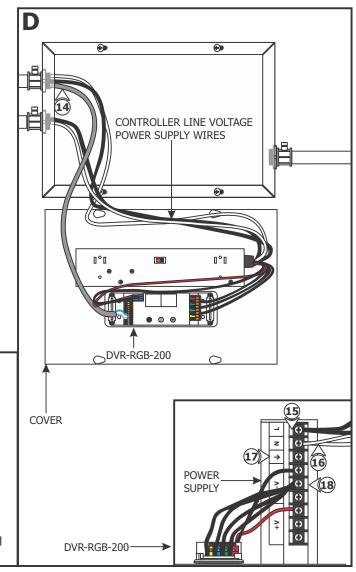
Installing LED Power Supply with RGB Soft Strip & CDP or CTP Controller





- **10:** Install a red wire from the power supply "+V" terminal to DVR-RGB-200 "VDC+" red terminal and a black wire from power supply "-V" terminal to DVR-RGB-200 "VDC-" blue terminal.
- **11:** Connect one end of a data wire (blue with white stripes wire) to controller "LEDSYNC OUT–" terminal. Connect the other end into the DVR-RGB-200 "DMX in –" terminal.
- **12:** Connect one end of a data wire (white with blue stripes wire) to controller "DMX +" terminal. Connect the other end into the DVR-RGB-200 "LEDSYNC OUT+" terminal.
- **13:** Connect one end of a data wire (bare shield wire) to controller "LEDSYNC SHIELD" terminal. Connect the other end into the DVR-RGB-200 "DMX in shield" terminal.

NOTE: "DMX in+", "DMX in-", "EXT in+" & "EXT in-", controller terminals are not used on controller.



- **14:** Run the line voltage power wires into the power supply.
- **15:** Connect the black power wire and the black controller wire to the "L" terminal of the power supply.
- **16:** Connect the white power wire and the white controller wire to the "N" terminal of the power supply.
- **17:** Make sure the power supply ground terminal is grounded in accordance with local electrical codes.
- **18:** Connect three black wires to the DVR-RGB-200 "GROUP 1 GND", GROUP 2 GND", and "GROUP 3 GND" black terminal to the power supply "-V" terminal.

