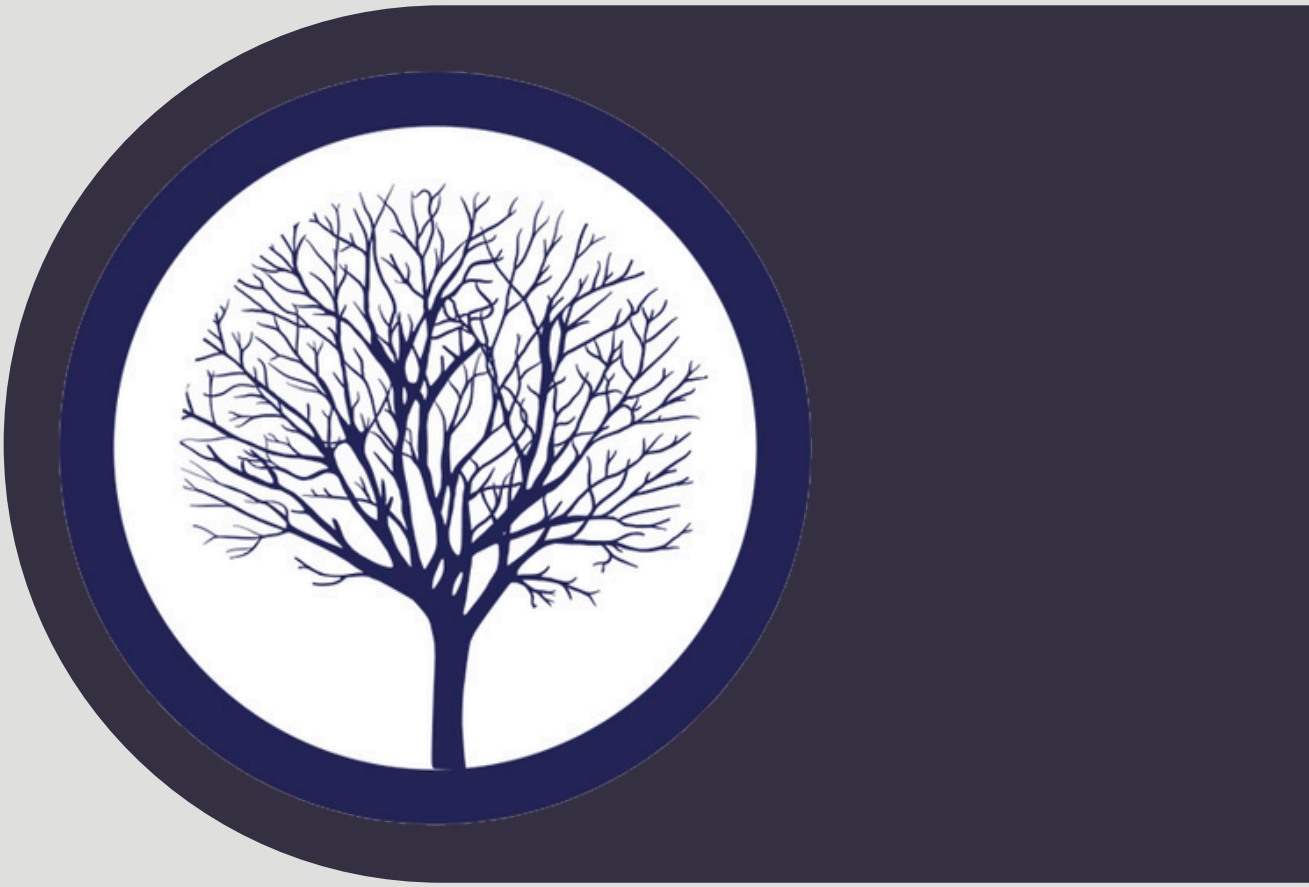
Springtree Media Group

User Manual

DMX602XE Lo-Vo Power Driver



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Description

SKU: DMX602XE

DMX602XE Power Driver

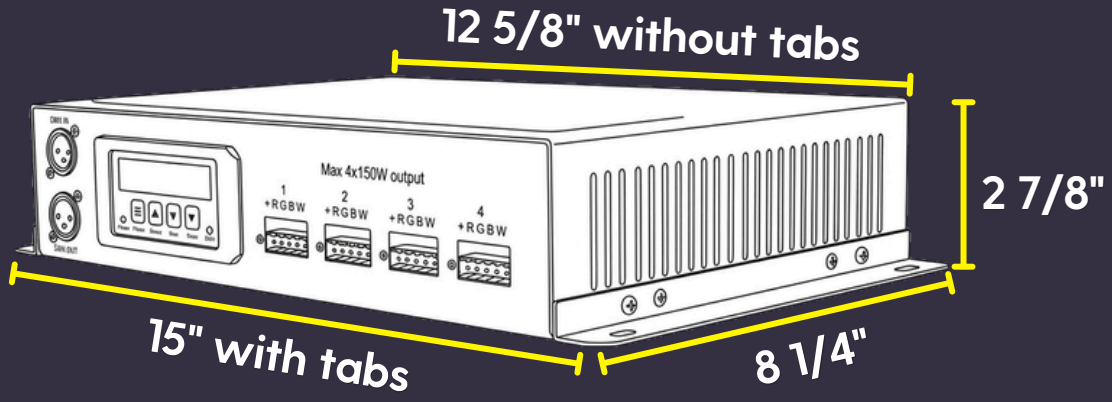
Power Drivers are the power and control center of Springtree's Lo-Vo Architectural Lighting System. The DMX602XE is a compact Power Driver featuring four 150-watt ports and connects to Lo-Vo lighting fixtures using low-voltage cable.

Features

- ETL certified
- Four zones, 150 watts each
- 120 watts recommended per zone
- White and RGBW operating modes
- DMX control
- Local control
- Built-in color macros

Tech Specifications

- Input: AC 120V, 12A
- Output: DC 24V, 600W
- Dimensions: 15" x 8 1/4" x 2 7/8"
- Weight: 9.6lbs



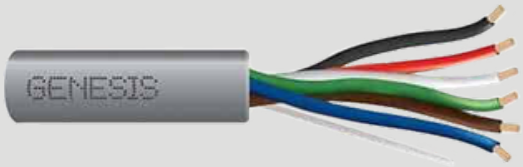
Fixtures Powered

	DMX150	DMX602XE	DMX1202XE	DMX1802XE
30Watt Spatial Flats	4	16	32	48
50Watt Spatial Flats	3	12	24	28
50Watt Spatial Flat Pendants	3	12	24	28
LED Spatial Tape	49 feet	196 feet	392 feet	459 feet
LED Spatial Bars	1	4	8	12
WW Spatial Minis	15	64	128	156
RGBWW Spatial Minis	12	48	96	120
30Watt Round LED Board	4	16	32	48
50Watt Round LED Board	3	12	24	28
12Watt LED Board	12	48	96	120

Installation

- **Do Not Wire While Hot:** Power must be turned off before connecting the unit to any fixtures.
- **Location:** Install the DMX602XE in a dry, well-ventilated area, such as an electrical closet.
- **Noise:** Lo-Vo fixtures are silent, but Power Drivers are not. The DMX602XE includes an internal fan and produces audible fan noise during operation.
- **Mounting:** Use the four provided screw holes for secure mounting.
- **Space Allocation:** Leave adequate space at the back of the unit for electrical wiring, DMX cables, and connectors.
- **Ventilation:** Do not block or obstruct the vent holes on the sides of the unit.

Wire Used



All RGBWW fixtures and Warm White fixtures over 30 watts use 18/5 low-voltage cable to connect to the DMX602XE Power Driver.
All Warm White fixtures 30 watts and under use 18/2 low-voltage cable.

Note: We typically use 18/6 cable because it is affordable and easier to source. The extra brown conductor is not used and can simply be cut off at each end.

Installation Continued

1. Electrical Connection:

- Use the Edison power connector located on the rear of the DMX602XE for electrical connection.

Note: Up to three DMX602XE units can be powered from a single 20-amp circuit at maximum load.

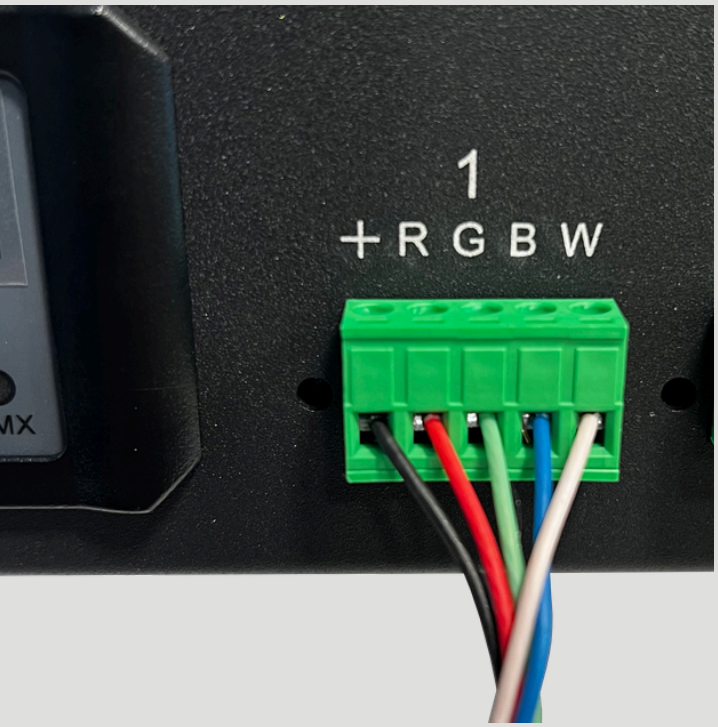
2. DMX Connection:

- Connect DMX using the 3-pin XLR connection located on the front of the unit.
- DMX input originates from your lighting console and may be daisy-chained to additional DMX602XE units or other DMX lighting fixtures.

3. Connection to Lo-Vo Lights:

- Use the Phoenix connectors to connect Lo-Vo lighting fixtures.
- Refer to the next page for detailed instructions on wiring each fixture type.

Installation Continued



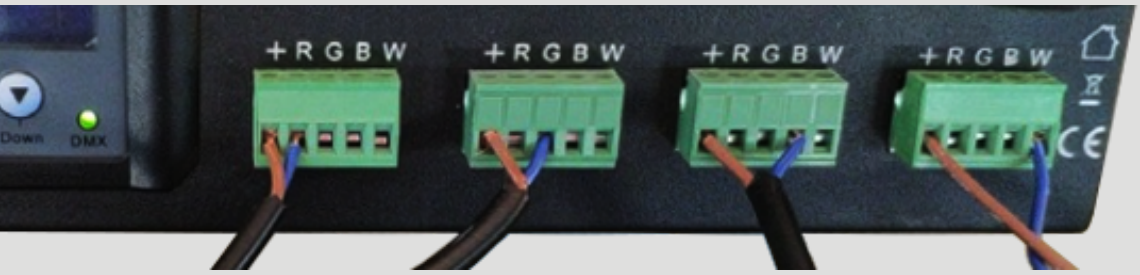
How To Connect Wires To Phoenix Connectors

How To Wire RGBWW & Large Warm White (50Watt & 120Watt) Lo-Vo Fixtures to the DMX602XE

Note: This is how all RGBWW and all 50Watt and 120Watt fixtures need to be wired. 30Watt Warm White fixtures can be wired differently. (See next page)

Connector 1	Connector 2	Connector 3	Connector 4
+ = Black	+ = Black	+ = Black	+ = Black
R = Red	R = Red	R = Red	R = Red
G = Green	G = Green	G = Green	G = Green
B = Blue	B = Blue	B = Blue	B = Blue
W = White	W = White	W = White	W = White

Installation Continued



How To Wire 30Watt Warm White Fixtures

Connector 1	Connector 2	Connector 3	Connector 4
+ = Brown	+ = Brown	+ = Brown	+ = Brown
R = Blue	R = Open	R = Open	R = Open
G = Open	G = Blue	G = Open	G = Open
B = Open	B = Open	B = Blue	B = Open
W = Open	W = Open	W = Open	W = Blue

Menu

The DMX602XE features four buttons on the front of the unit: **MENU**, **ENTER**, **UP**, and **DOWN**.

Press **MENU** to access settings for **Output Mode**, **DMX Address**, **Color Macro**, **User Color**, and **PWM**.

PWM stands for **Pulse Width Modulation**. There are four PWM modes to choose from. It refers to the rate of current pulses sent to the LEDs and can affect how the lights appear when dimmed on video. When filming, if you notice visible pulsing or flickering while dimming, select the PWM mode that works best with your camera and setup.

Output Mode: White

Color Macro N/A

User Color	White 1	000-255
	White 2	000-255
	White 3	000-255
	White 4	000-255
PWM	12288	
	8192	
	4096	
	2048	
DMX Address	001-512	
Channel	1	One Zone
	2	Two Zones
	4	Four Zones

Menu - Continued

Output Mode: RGBW

Color Macro	Red	000-255
	Amber	000-255
	Yellow/Warm	000-255
	Yellow	000-255
	Green	000-255
	Turquoise	000-255
	Cyan	000-255
	Blue	000-255
	Lavender	000-255
	Mauve	000-255
	Magenta	000-255
	Pink	000-255
	Warm White	000-255
	White	000-255
	Cold White	000-255
	Color Fade	000-255
	Color Jump	000-255
	Color Off	000-255
User Color	Red	000-255
	Green	000-255
	Blue	000-255
	White	000-255
PWM	12288	
	8192	
	4096	
	2048	

Menu - Continued

Output Mode: RGBW

DMX Address	001-512	
Channel	5	One Zone
	10	Two Zones
	20	Four Zones

DMX Control

The DMX602XE has two Output Modes:

- **White Mode** is used for Warm White fixtures.
- **RGBW Mode** is used for RGBWW fixtures.

Each Output Mode includes three Channel Mode options, which determine how the four outputs are grouped into zones for DMX control.

The image below shows the available zone options. The tables on the following pages show which DMX channels are used for each Output Mode and Channel Mode.

1 Zone

2 Zones

4 Zones

White Mode

Channel Mode			
1 Zone	**2 Zone**	**4 Zone**	**DMX Value**
CH1	CH1	CH1	Intensity (Zone 1)
	CH2	CH2	Intensity (Zone 2)
		CH3	Intensity (Zone 3)
		CH4	Intensity (Zone 4)

RGBW Mode

Channel Mode			
1 Zone (5 Channels)	**2 Zones (10 Channels)**	**4 Zones (20 Channels)**	**DMX Value**
CH1	CH1	CH1	Red (Zone 1)
CH2	CH2	CH2	Green (Zone 1)
CH3	CH3	CH3	Blue (Zone 1)
CH4	CH4	CH4	White (Zone 1)
CH5	CH5	CH5	Intensity (Zone 1)
	CH6	CH6	Red (Zone 2)
	CH7	CH7	Green (Zone 2)
	CH8	CH8	Blue (Zone 2)
	CH9	CH9	White (Zone 2)
	CH10	CH10	Intensity (Zone 2)

RGBW Mode Continued

Channel Mode			
1 Zone (5 Channels)	**2 Zones (10 Channels)**	**4 Zones (20 Channels)**	**DMX Value**
		CH11	Red (Zone 3)
		CH12	Green (Zone 3)
		CH13	Blue (Zone 3)
		CH14	White (Zone 3)
		CH15	Intensity (Zone 3)
		CH16	Red (Zone 4)
		CH17	Green (Zone 4)
		CH18	Blue (Zone 4)
		CH19	White (Zone 4)
		CH20	Intensity (Zone 4)

Safety

1. Do not expose this unit to moisture to reduce the risk of electrical shock or fire
2. Be sure the local power outlet matches the required voltage for your unit.
3. Disconnect from the main power before making any connection.
4. Do not remove the cover under any conditions. There are no user-serviceable parts inside.
5. Never plug this unit into a dimmer pack.
6. This power supply is intended for indoor use ONLY.
7. Always mount this unit safely and stably.

Troubleshooting

1. Check that the DMX cables are connected properly and are wired correctly.
2. Check that all cables are connected to the correct connectors; it does matter which way the inputs and outputs are connected.

We Are Here For You!

Springtree is all about simplifying the AV process. A big part of that is being available to answer your questions. Give us a call or fill out a contact form. We are here to help!

Contact Us

springtree.net/contact-us/

615-599-1505

[Contact Form]