

# LTR-S-COB LED Specification Series

## RGB+ Tunable White LED Tape 24VDC Dry Location Specification Sheet



### PRODUCT OVERVIEW

GM's RGB + Tunable White COB tape adds a new dimension beyond simple RGB. With the addition of 2700K and 6500K White LEDs, an amazing combination of color and general lighting is enabled. Cool white light can be used for critical tasks while warm whites create a cozy environment. RGB colors create a wide array of accent options for your desired look. Compact, COB style tape means reduced pixelization for smoother looking light. Designed for high quality illumination in dynamic applications.

### FEATURES

- Red, Green, Blue (RGB) channels for rich color applications
- Tunable White LEDs for general and task lighting (2700K-6500K)
- 169 LEDs (single color), 845 LEDs (all LEDs) per meter
- Cuttable Increment: 1-5/8"
- 90° L-sections make flat corner applications easy
- Custom lengths available - consult factory
- 150° viewing angle
- 3M adhesive back
- Compatible with 5-channel DMX or RF control

### SPECIFICATIONS

#### ELECTRICAL

- 24VDC
- 5W per foot (all channels)
- Max run is 16'4" (5m)
- 5 LED channel, 6 wire LED tape

#### OPERATING TEMP

- -4°F to 104°F (-20°C to 40°C)

#### CERTIFICATION

- UL listed for US and Canada
- Class 2
- For use in dry and damp locations

#### WARRANTY

- 5 years when paired with GM power supply

Note: 24V non-dimming power supply required.

### ORDERING INFORMATION

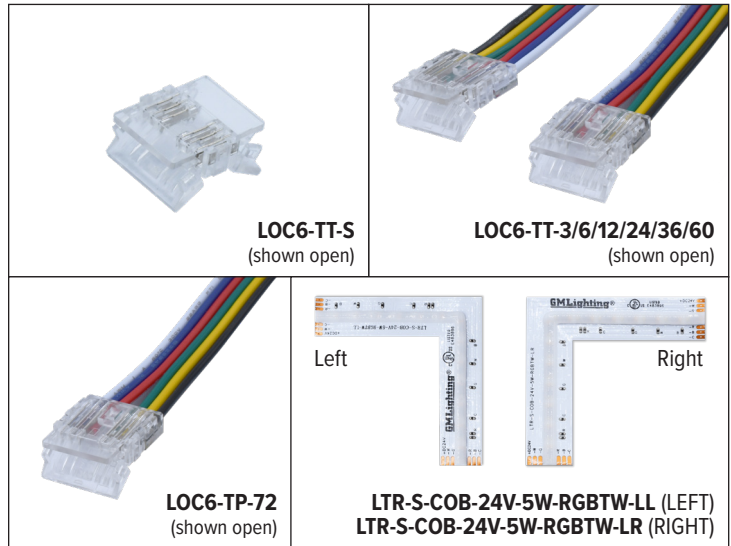
Example: **LTR-S-COB-24V-5W-RGBTW-16**

Model	Series	Voltage	Wattage	Type	Reel Length /Direction
LTR	S-COB	24V	5W	RGBTW	16 (Linear tape 16')
					LL (L-section LEFT)
					LR (L-section RIGHT)

Catalog No.	Description
LOC6-TT-S	Low profile 6C tape-to-tape splice connector
LOC6-TT-3	Low profile 6C tape-to-tape 3" wire connector
LOC6-TT-12	Low profile 6C tape-to-tape 12" wire connector
LOC6-TT-36	Low profile 6C tape-to-tape 36" wire connector
18-6-WIRE-XXXFT	18/6 In-wall rated cable (CMP) by the foot

Catalog No.	Description
LOC6-TP-72	Low profile 6C tape-to-power 72" wire connector
LOC6-TT-6	Low profile 6C tape-to-tape 6" wire connector
LOC6-TT-24	Low profile 6C tape-to-tape 24" wire connector
LOC6-TT-60	Low profile 6C tape-to-tape 60" wire connector

Project Name	Type
Catalog #	Date



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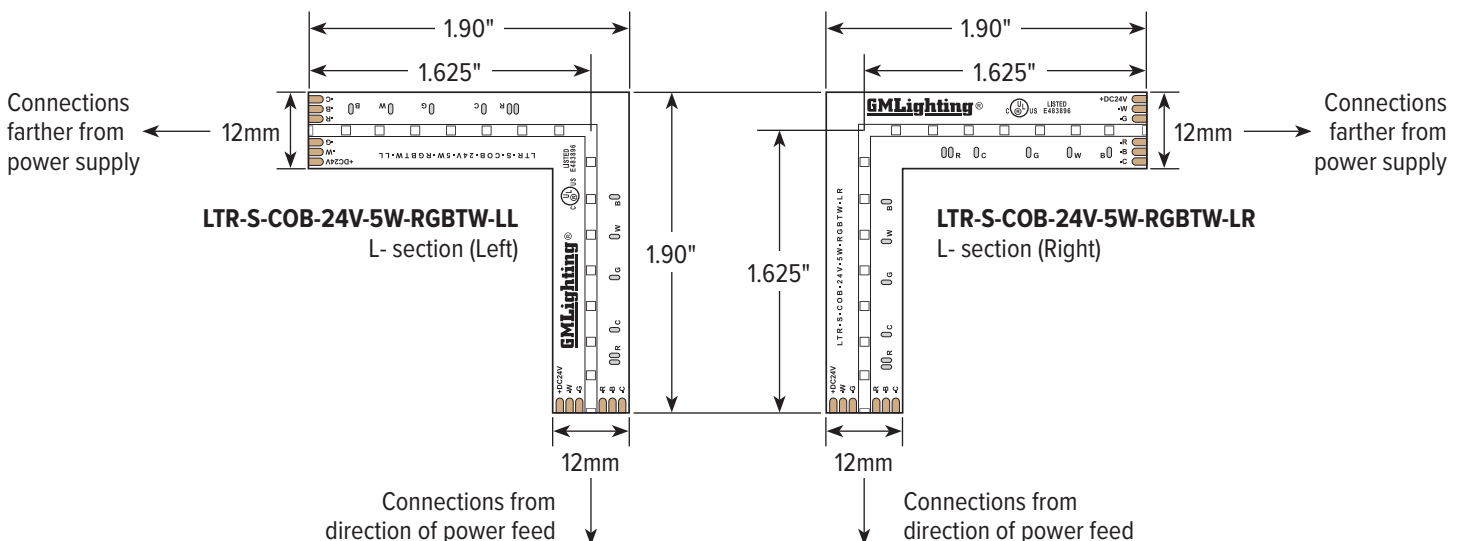
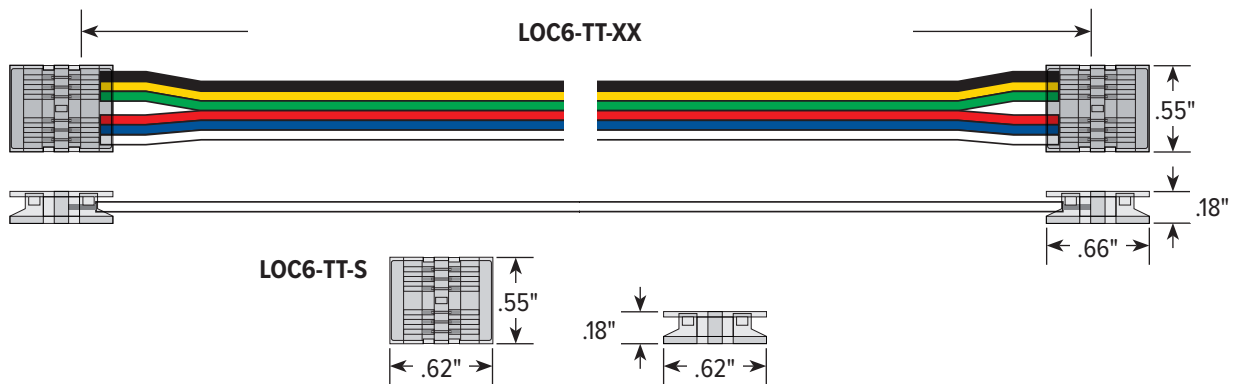
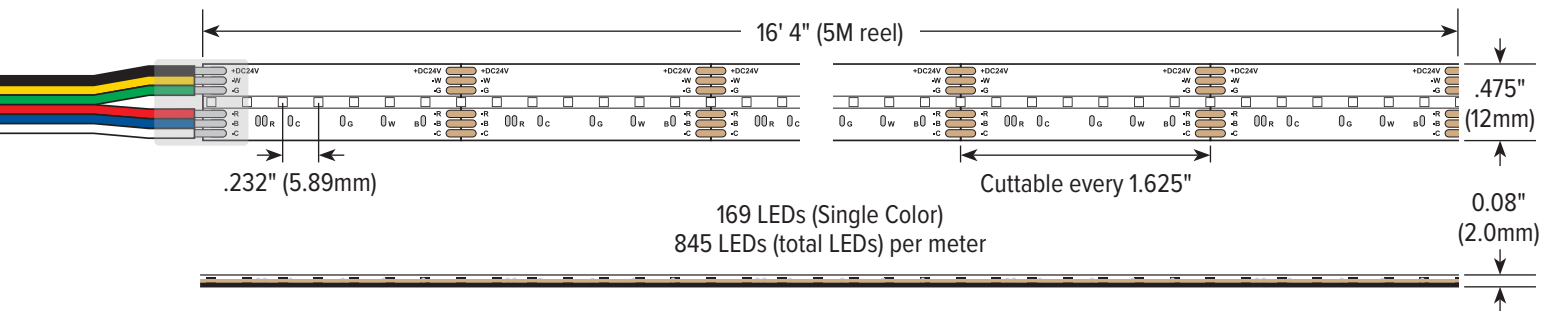
## RGB+ Tunable White LED Tape 24VDC Dry Location Specification Sheet

### PHOTOMETRIC AND POWER DATA

LED Channel	Voltage	Watts/ft	Lumens/ft	CCT	CRI	Wavelength
Warm White	24.0	0.97	85	2700K	91	-
Cool White	24.0	0.97	84	6500K	90	-
Red	24.0	1.56	-	-	-	628nm
Green	24.0	0.69	-	-	-	520nm
Blue	24.0	0.12	-	-	-	454nm

Total wattage for all channels on is 5W/ft max

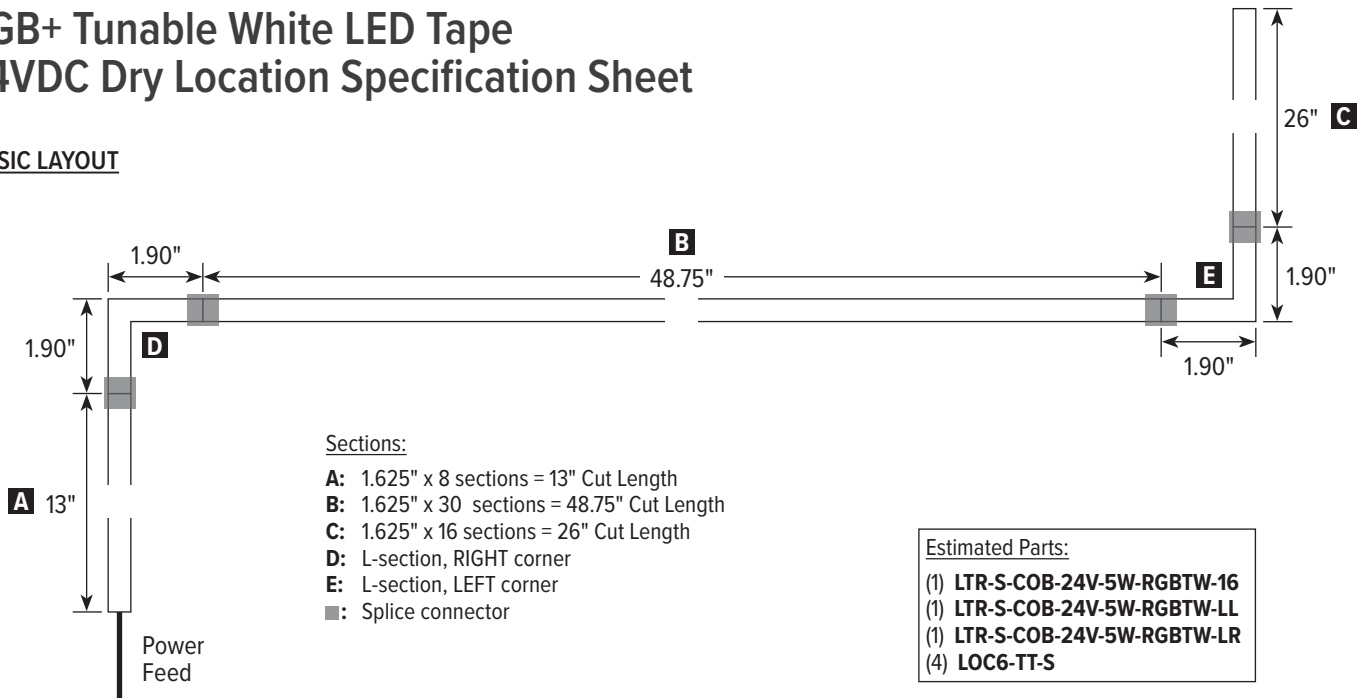
### DIAGRAMS



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### BASIC LAYOUT



### COMPATIBLE CONTROLLERS

System	Catalog No.	Description
RF Control	HC-RF-UNV-5CH	Universal 1-5 Channel RF Remote Control
	CM-RF-UNV-5CH	Universal 1-5 Channel Control Module
	RPT-UNV-5CH	Universal 1-5 Channel Repeater Amplifier
DMX Control	DMX-LT-995	5-Channel DMX Decoder
	WC5-RGBTW-DMX-BT	Black Wall Control 5-Channel DMX, Bluetooth App
	LD-E-UNV8-12	12V 8W Constant Voltage Driver 120V/277VAC In
	DMX-TR-5	DMX Terminator Resistor 120 Ohm, 1/4 Watt, 5 pcs

### RECOMMENDED DRIVERS

Catalog No.	Description	Watts	Specification Sheet
LD-XD-UNV	LineDrive Electronic Multi-Dimmable Power Supply, 12VDC or 24VDC	20W, 40W, 60W, 96W, 180W, 200W, 300W	<a href="#">View Spec Sheet</a>
LD-MD-UNV	LineDrive Magnetic Dimmable Power Supply, 12VDC or 24VDC	30W, 60W, 96W, 150W, 200W, 300W	<a href="#">View Spec Sheet</a>
PSD	Electronic Dimmable Power Supply, 12VDC or 24VDC	15W, 24W, 60W, 90W	<a href="#">View Spec Sheet</a>

Please see our website for updated power supply specifications and information.

Note: NOT for use with LD-EDM series power supplies

### CORD AND PLUG DRIVERS

Model	Description	Watts	Weight	Dimensions
LTP24-48	24VDC - 48W - 2 amps - 120V - 120V cord (72") and plug Short circuit, overload protection - LED indicator for power on. UL listed	48W	1.8 lbs	4.68"L x 2.05"W x 1.25"H
LTP24-90	24VDC - 90W - 3.75 amps - 120V - 120V cord (72") and plug Short circuit, overload protection - LED indicator for power on. UL listed	90W	1.8 lbs	4.68"L x 2.05"W x 1.25"H

Please see our website for updated power supply specifications and information.

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### COMPATIBLE CHANNELS

#### EXTRA DEEP

Catalog No.	Description	Length	Dimensions
LED-CHL-XD	Extra-deep format extruded channel. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-XD-6	Extra-deep format extruded channel. Includes snap-on frosted lens with mounting clips and screws.	6'	
LED-CHL-XD-AMC	(2) Adjustable mounting brackets for <b>LED-CHL-XD</b>	N/A	
LED-CHL-XD-EC	(2) End caps for <b>LED-CHL-XD</b> , one solid, one with hole	N/A	
LED-CHL-XD-MC	(2) Mounting clips and screws for <b>LED-CHL-XD</b>	N/A	

#### EXTRA DEEP FLANGED

Catalog No.	Description	Length	Dimensions
LED-CHL-XD-F	Extra-deep format extruded channel with flange. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-XD-F-6	Extra-deep format extruded channel with flange. Includes snap-on frosted lens with mounting clips and screws.	6'	
LED-CHL-XD-F-DC	(2) Drywall mounting brackets for <b>LED-CHL-XD-F</b>	N/A	
LED-CHL-XD-F-EC	(2) End caps for <b>LED-CHL-XD-F</b> , one solid, one with hole	N/A	

#### 45° LARGE ANGLE MOUNT

Catalog No.	Description	Length	Dimensions
LED-CHL-45-1200	Extruded angled (45°) channel. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-45-1200-EC	(2) End caps for <b>LED-CHL-45</b> , one solid, one with hole.	N/A	
LED-CHL-45-1200-MC	(2) Additional mounting clips for <b>LED-CHL-45-1200</b>	N/A	

#### WIDE

Catalog No.	Description	Length	Dimensions
LED-CHL-W	Wide format extruded channel. Includes snap-on frosted lens with mounting clips and screws.	4'	
LED-CHL-W-6	Wide format extruded channel. Includes snap-on frosted lens with mounting clips and screws.	6'	
LED-CHL-W-AMC	(2) Adjustable mounting brackets for <b>LED-CHL-W</b>	N/A	
LED-CHL-W-EC	(2) End caps for <b>LED-CHL-W</b> one solid, one with hole	N/A	
LED-CHL-W-MC	(2) Additional mounting clips for <b>LED-CHL-W</b>	N/A	

#### MUD-IN STANDARD

Catalog No.	Description	Length	Dimensions
LED-CHL-MI-ST6	Standard extruded aluminum mud-in channel. Includes snap-on frosted lens.	6'	
LED-CHL-MI-ST6-FC90	Mud-in 90° Flat Corner with 4 joiners, set screws and hex key	N/A	
LED-CHL-MI-ST6-IC90	Mud-in 90° Inside Corner with 4 joiners, set screws and hex key	N/A	
LED-CHL-MI-ST6-OC90	Mud-in 90° Outside Corner with 4 joiners, set screws and hex key	N/A	
LED-CHL-MI-ST-EC	(2) End caps for <b>LED-CHL-MI-ST6</b> , one solid, one with hole	N/A	
LED-CHL-MI-ST6-JC	Straight 2-piece joiner coupler, set screws and hex key	N/A	
LED-CHL-MI-ST6-LENS	PC diffuser lens, 8ft	6'	

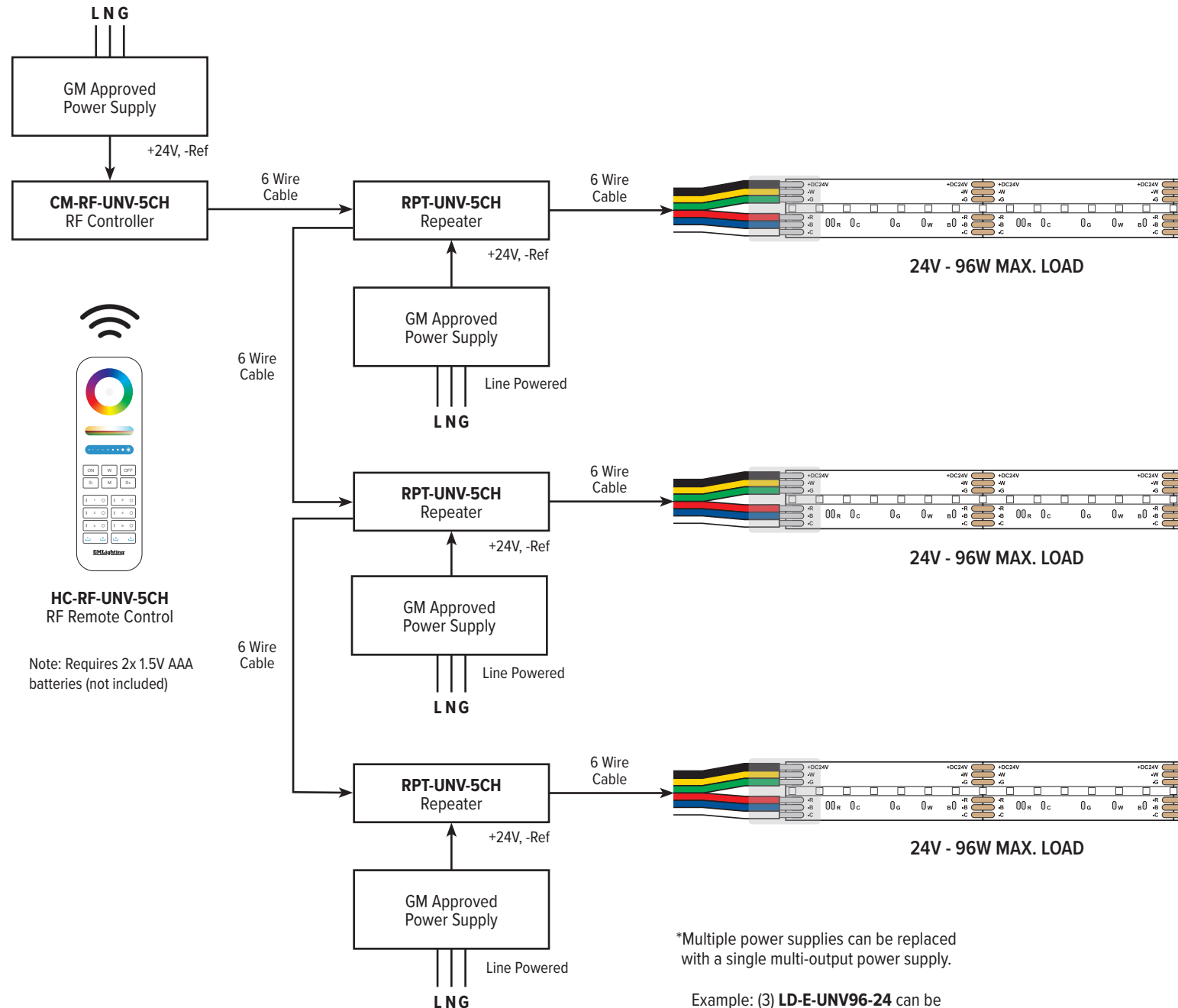
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### UNIVERSAL RF CONTROLLER WIRING DIAGRAM

Incoming power for (L N G) options can be 120V or 277V.  
Check power supply for proper input voltage and output power required.  
Power supply output voltage must match LED operating voltage. (24VDC)  
Power supply used **MUST NOT BE DIMMED** at the input to properly power the controls.  
See Controller instructions for pairing and wiring details.



\*Multiple power supplies can be replaced with a single multi-output power supply.

Example: (3) LD-E-UNV96-24 can be replaced by (1) LD-E-UNV300-24

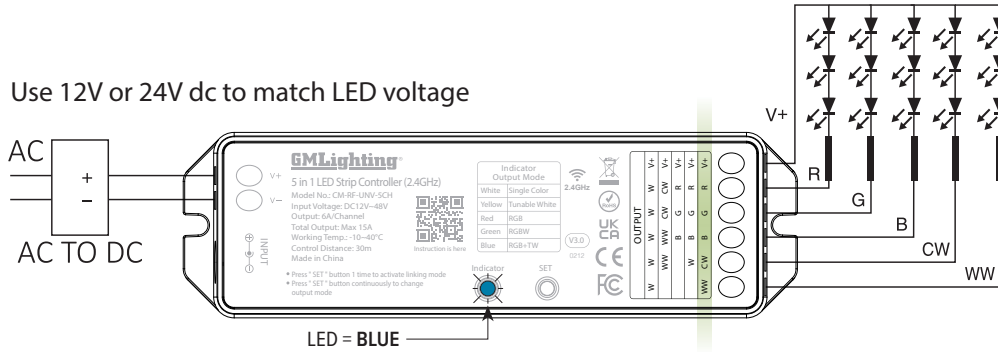
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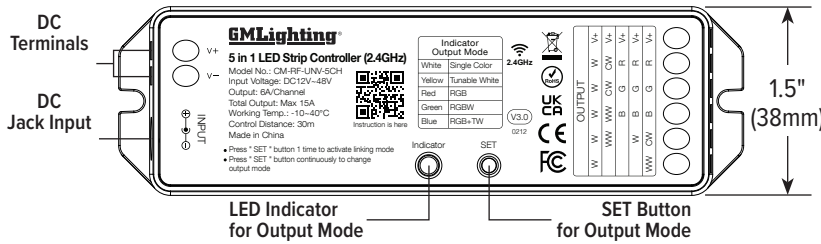
### RF REMOTE CONTROLLER AND REPEATER

Use 12V or 24V dc to match LED voltage

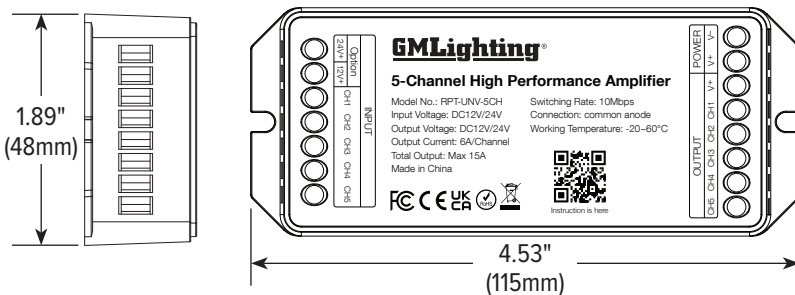
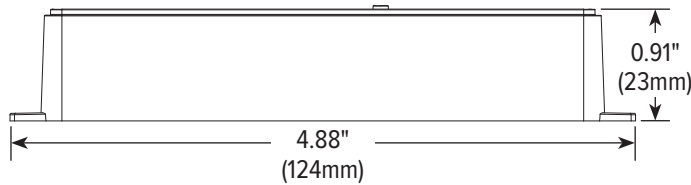


CM-RF-UNV-5CH  
RF Controller

### DIMENSIONS



CM-RF-UNV-5CH  
RF Controller



RPT-UNV-5CH  
Repeater Amplifier

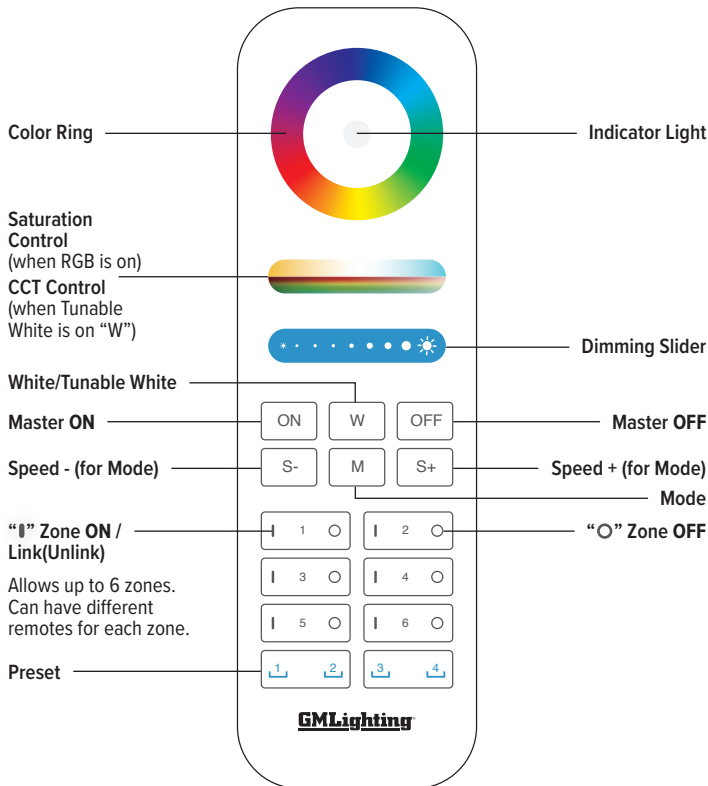


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### RF HAND HELD REMOTE FEATURES AND DIMENSIONS

**RF Remote Control  
HC-RF-UNV-5CH  
with Built-In Effects**

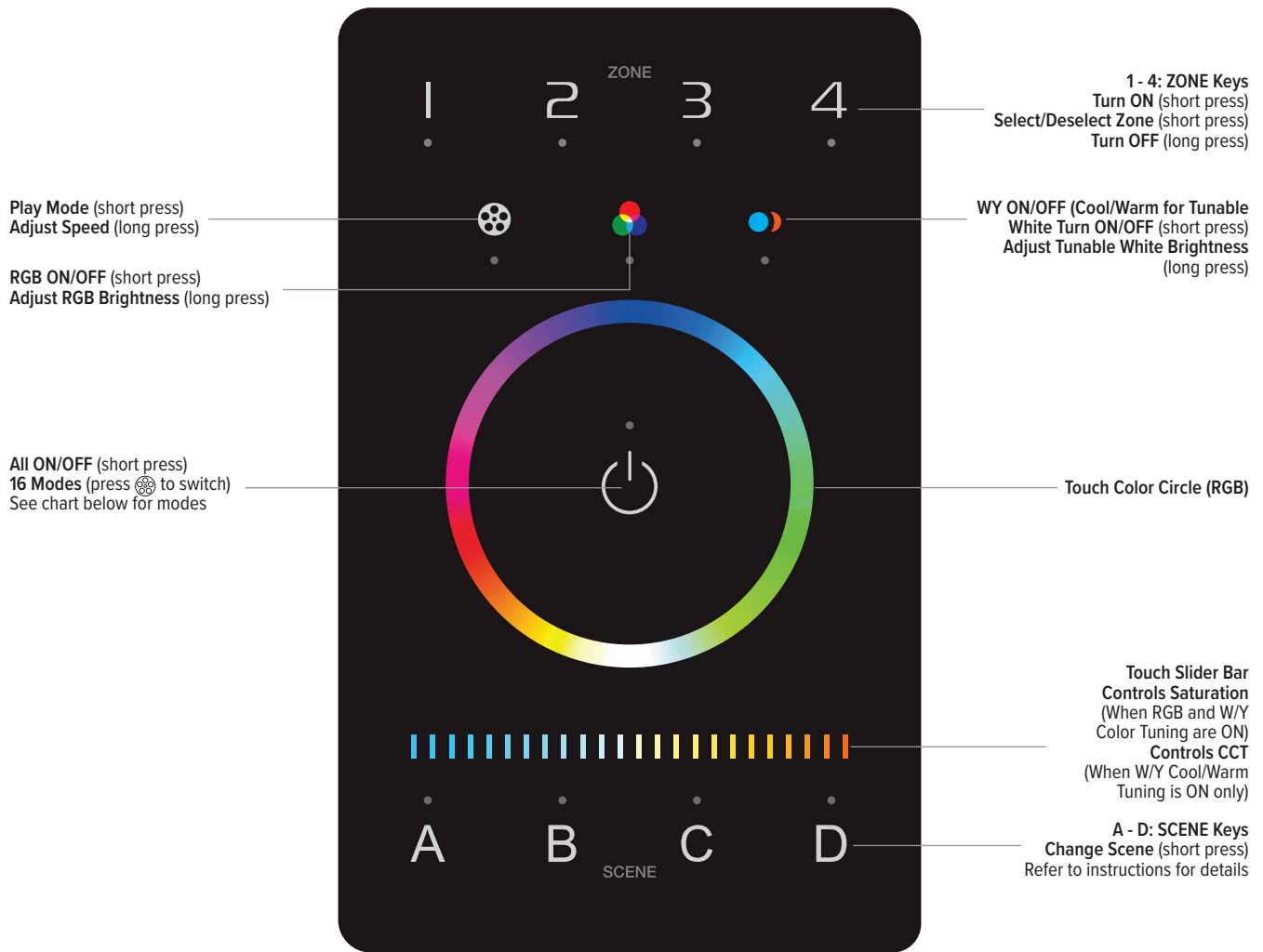


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See instructions for use and pairing information.

### Wall Control WC5-RGBTW-DMX-BT 16 Built-In Modes



### 16 PRESET MODES (Adjustable Brightness / Saturation / Speed)

No.	Mode
1	3 Color Jumping
2	7 Color Jumping
3	White Strobe
4	7 Color Strobe
5	Red / Green Gradient
6	Red / Blue Gradient
7	Green / Blue Gradient
8	Red / Yellow Gradient

No.	Mode
9	Blue / Purple Gradient
10	Green / Yellow Gradient
11	Blue / Cyan Gradient
12	Red / Purple Gradient
13	Blue / White Gradient
14	Yellow / Purple / Cyan Gradient
15	3 Color Gradient
16	Full Color Gradient

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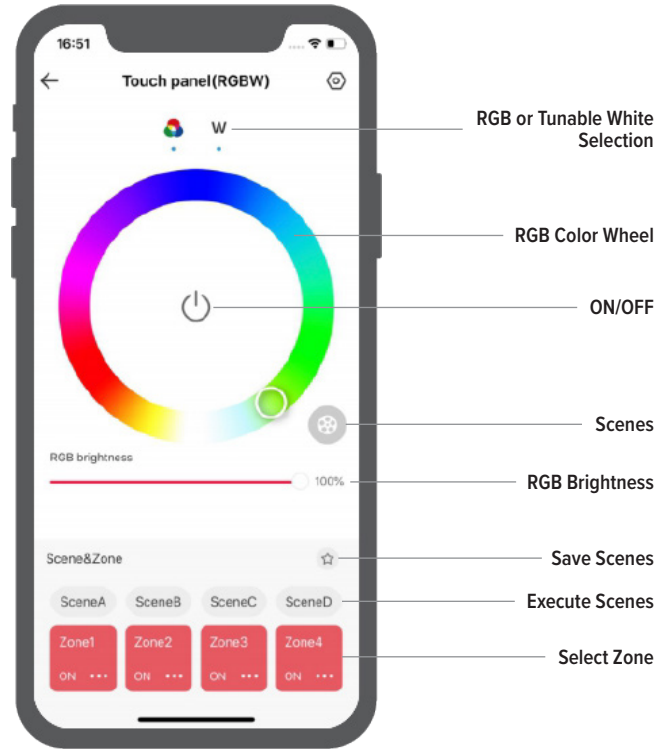
### RGBTW DMX WALL CONTROL AND BLUETOOTH® APP

This device communicates by Bluetooth®. Wi-Fi not required for the App. Device that App is connected to will need Wi-Fi capability to download and set up the App.

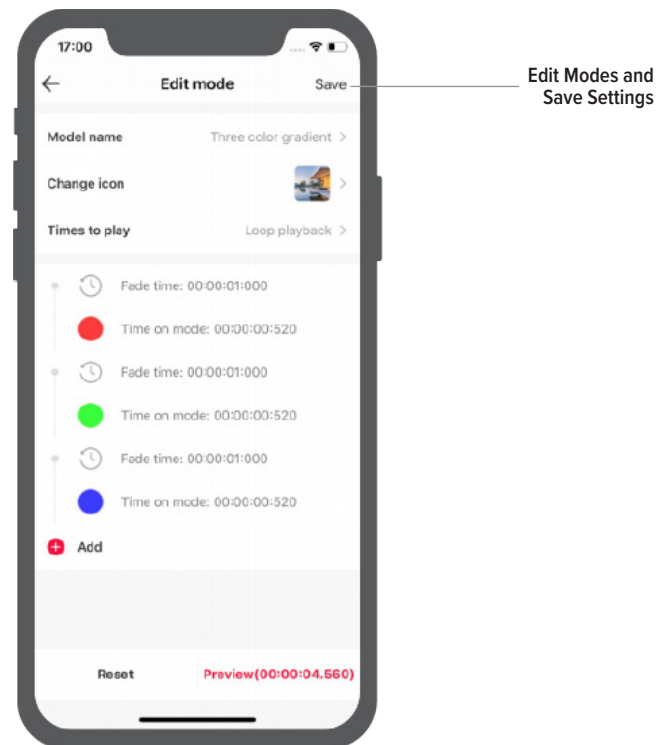
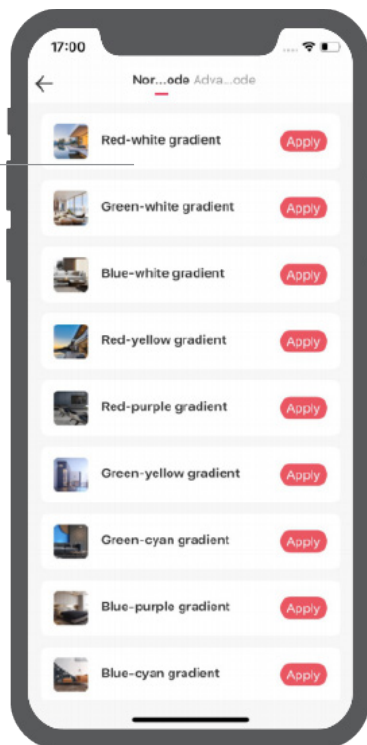
Note that Wi-Fi is NOT used to control the device

#### App Operation:

1. Scan the QR code in the instructions to download the App for Apple iOS or Android OS
2. Pair your device to the Wall Control
3. Use manual settings to check operation and use simple white, color and dimming functions
4. Select preset Modes to for advanced lighting options
5. Create Zones or custom Scenes by editing features
6. Share control with other devices



Click the mode to select more details



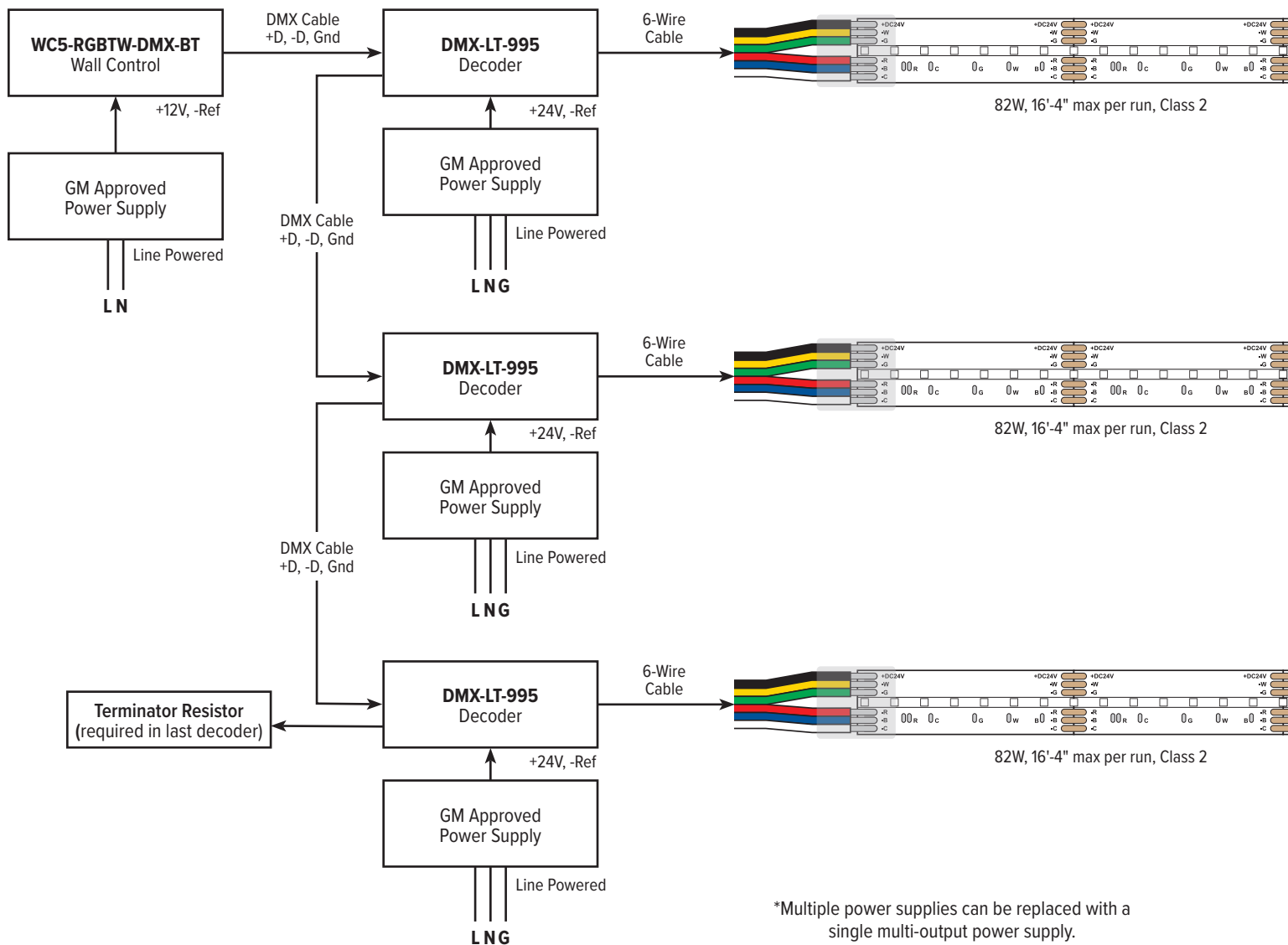
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### RGBTW DMX WALL CONTROL AND BLUETOOTH APP

Three decoder example shown as simple example.  
Consult DMX Planning Guide for specific application details and requirements of different size systems.  
See separate data sheets and instructions for more details on DMX Wall Controls and Decoders.

Incoming power for (L N G) can be 120V or 277V.



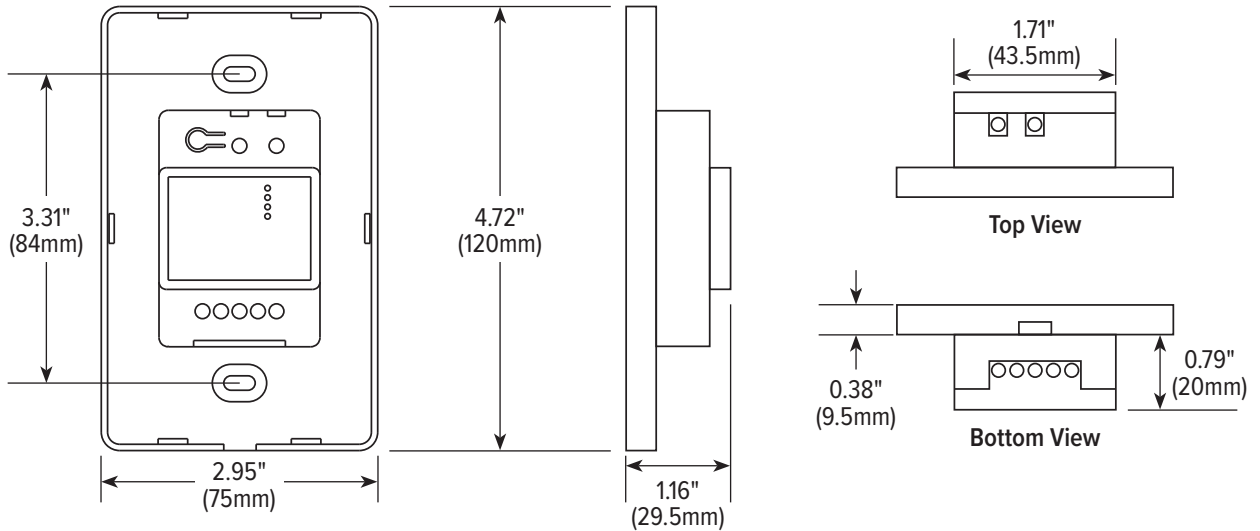
\*Multiple power supplies can be replaced with a single multi-output power supply.

Example: (3) LD-XD-UNV96-24 can be replaced by (1) LD-XD-UNV300-24

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Wall Control  
WC5-RGBTW-DMX-BT



DMX Decoder  
DMX-LT-995

