Lamina
24VDC Configural Laminated Sheet

GMLighting ®

24 VOLT | **LUX control** | **INDOOR** | **90+ CRI** | **CLOSET** | **5 Yr. WARRANTY** | **ETL Intertek**

PRODUCT OVERVIEW

Lamina is a 24VDC flexible light sheet that can be cut in the field into geometric or irregular shapes, creating limitless illumination for signage, light panels, retail display, back lighting and themed lighting applications. Easy installation with no heat sink required. Standard 12" x 12" sheets make it easy to plan your layout and install (see next page).

FEATURES

- Flexible - conforms to curvilinear shapes like round columns
- Dimmable
- 12" x 12" with 48" leads and sheet to sheet connectors
- 1/8" depth
- Connectible via integral push-in connectors
- 3M backing layer adheres to most flat or curved surfaces
- 3M tape, staple or screw mounting options
- Invisible Stand-Off support option allows even illumination with translucent panels (by others) easily raises diffusion translucent panels 0.91" - 2.0" above Lamina. For horizontal surface use only.
- Not intended for outdoor use
- Operating temp. -4°F - 122°F*

SPECIFICATIONS

ELECTRICAL
- 24VDC
- **SO:** 5W / Sq. Ft.
  HO: 10W / Sq. Ft.
- Connectors every 4" around perimeter

OPTICS
- 2700K, 3000K, 3500K, 4000K
- 90+ CRI

LABEL
- ETL
- Closet Rated

WARRANTY
- 5-years

EVEN ILLUMINATION FIELD CUT VERSATILITY

ORDERING INFORMATION   Example: S12X12-HO-30

Model	-	Series	-	Color Temp.
S12X12		SO (Standard)		27 (2700K)
				30 (3000K)
		HO (High)		35 (3500K)
				40 (4000K)

CONNECTORS

Catalog No.	Description
S12X12-SSC	Sheet to Sheet Wire Connector

Tight diode to diode spacing for even illumination and no hot spots.

NOTE: Even illumination will vary depending on materials, please verify offset for even illumination.

1" Cut Lines (shown in horizontal format direction)

1"

1" Cut Lines (shown in vertical format direction)

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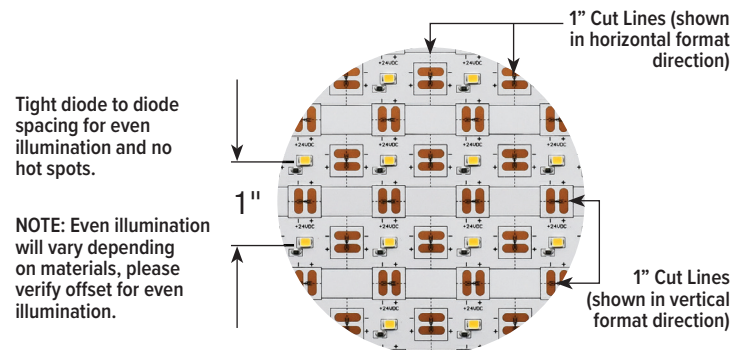
Catalog No.	Output	Dimension	Watts	Lumens	CRI	Color Temp.
S12X12-SO-27	Standard Output	12" x 12"	5W / Sq. Ft.	500 / Sq. Ft.	90+	2700K
S12X12-SO-30						3000K
S12X12-SO-35						3500K
S12X12-SO-40						4000K
S12X12-HO-27	High Output		10W / Sq. Ft.	1000 / Sq. Ft.		2700K
S12X12-HO-30						3000K
S12X12-HO-35						3500K
S12X12-HO-40						4000K

STAND-OFF ACCESSORIES

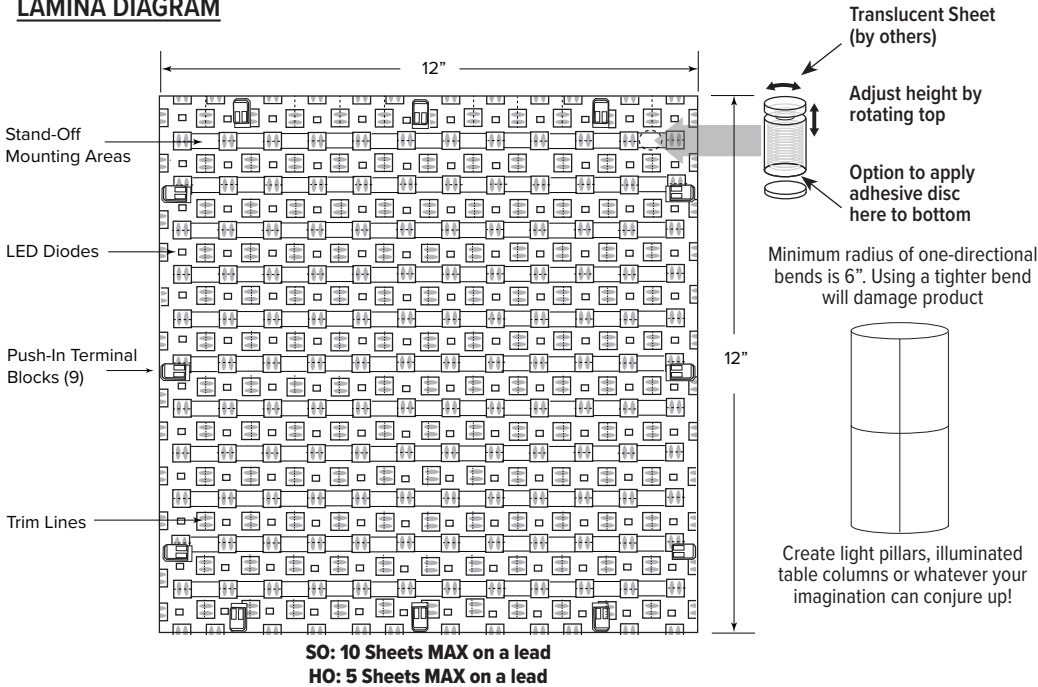| Model	Description	Diameter	Height Range	Max. Load	Recommended Screw Size (not included)
GM-SOC-1	Clear, Acrylic w/clear 3M tape	13mm (0.62")	23mm (0.91") to 33mm (1.30")	6 lbs.	#6 x 3/4" Pan Head Sheet Metal Screw
GM-SOC-2	Clear, Acrylic w/clear 3M tape	19mm (0.75")	36mm (1.42") to 51mm (2.00)"	10 lbs.	#8 x 3/4" Pan Head Sheet Metal Screw

Note: Stand-offs come in sets of 4

COMPATIBLE CONTROLLERS

Model	Description
SHWC	LUXcontrol Smart 2.4 GHz WiFi Controller, Standard 12V/24V Low Voltage
SHWD	LUXcontrol Smart 2.4 GHz WiFi Controller, Standard 12V/24V Low Voltage
SWD-60W-24VDC-DIM	SwitchLD All-in-One Dimmer and Driver, 60W, 24VDC
SWD-100W-24VDC-DIM	SwitchLD All-in-One Dimmer and Driver, 100W, 24VDC
HC-RF-UNV-5CH	Universal 1-5 Channel RF Remote Control
RPT-UNV-5CH	Universal 1-5 Channel Repeater Amplifier
CM-RF-UNV-5CH	Universal 1-5 Channel Control Module

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	View Spec Sheet
LD-E-UNV	LineDrive Electronic Non-Dimmable Power Supply, 12VDC or 24VDC	30W, 60W, 96W, 200W, 300W	View Spec Sheet
LD-MD-UNV	LineDrive Magnetic Dimmable Power Supply, 12VDC or 24VDC	30W, 60W, 96W, 150W, 200W, 300W	View Spec Sheet
LD-EDM	LineDrive Electronic Dimmable MINI Power Supply, 12VDC or 24VDC	60W	View Spec Sheet
LTP	Cord and Plug Power Supply, 12VDC or 24VDC	25W, 48W, 60W, 90W	View Spec Sheet
PSD	Electronic Dimmable Power Supply, 12VDC or 24VDC	15W, 24W, 60W, 90W	View Spec Sheet
Please see our website for updated power supply specifications and information.			

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LAMINA DIAGRAM

12"

12"

Stand-Off Mounting Areas

LED Diodes

Push-In Terminal Blocks (9)

Trim Lines

SO: 10 Sheets MAX on a lead
HO: 5 Sheets MAX on a lead

Translucent Sheet (by others)

Adjust height by rotating top

Option to apply adhesive disc here to bottom

Minimum radius of one-directional bends is 6". Using a tighter bend will damage product

Create light pillars, illuminated table columns or whatever your imagination can conjure up!
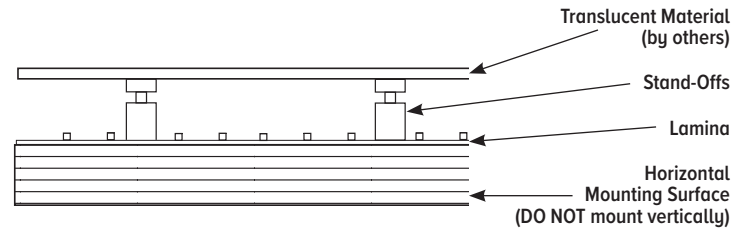
Installation:
Attach stand-off to Lamina board on center with rectangles. Use adhesive disc or #6 screw (by others). Space out as needed to distribute weight of translucent sheet evenly.
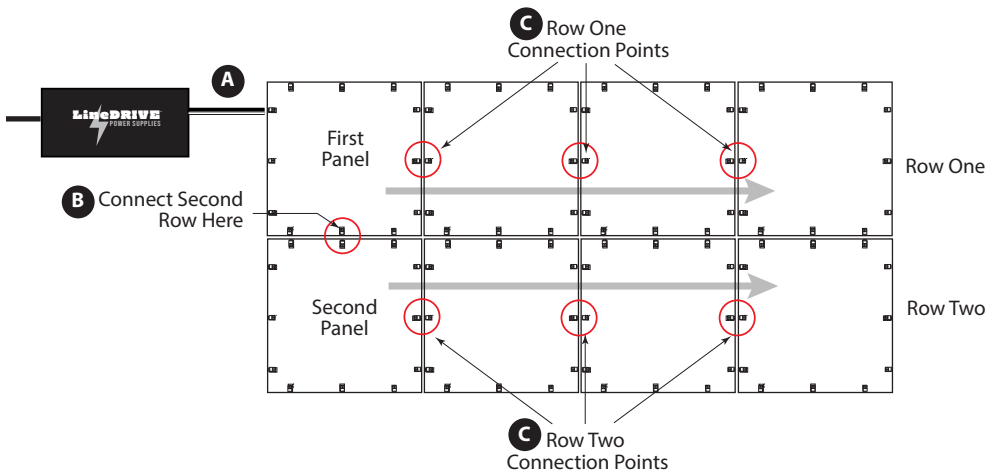
CAUTION:
Stand-offs are to be used on top of horizontal surfaces only. Not for vertical wall or ceiling applications.

Translucent Material (by others)

Stand-Offs

Lamina

Horizontal Mounting Surface (DO NOT mount vertically)

MULTIPLE PANEL CONNECTION DIAGRAM

C Row One Connection Points

A

B Connect Second Row Here

First Panel

Second Panel

Row One
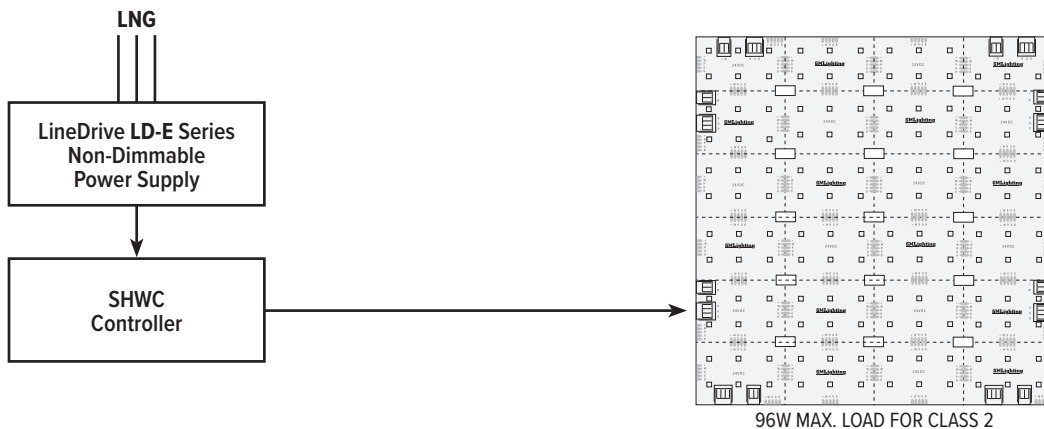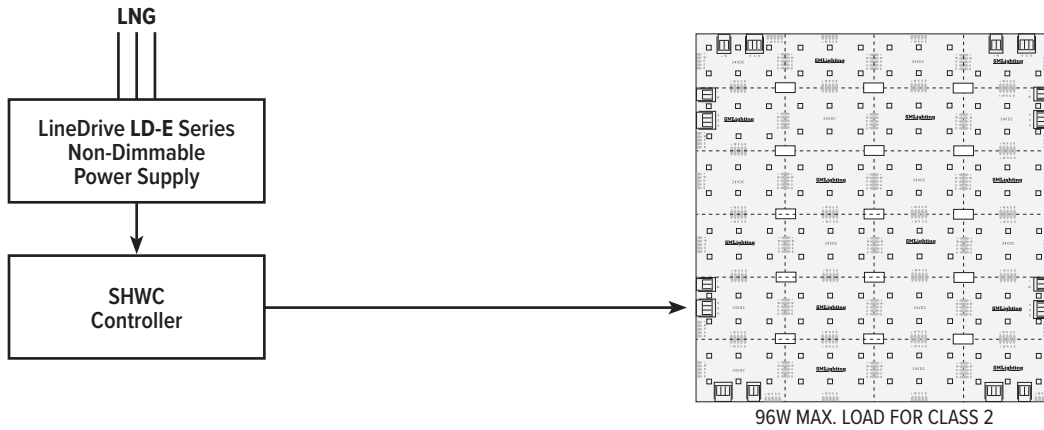
Row Two

C Row Two Connection Points

Layout & Wiring Tips (See example)**:**
A. Connect power to first panel (1) in group.
B. Connect panel in Row Two, making connection between bottom of First Panel and top of first panel in Row Two.
C. Connect additonal panels in each row as you see in the diagram. Remaining panels are connected in one direction only.

Many other layouts can be created for different shapes depending on panel cuts and position.

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SHWC LUXCONTROL WIFI CONTROLLER

GROUP MULTIPLE CONTROLLERS IN THE LUXCONTROL APP

LNG

```
LineDrive LD-E Series
Non-Dimmable
Power Supply
```

↓

```
SHWC
Controller
```

→

96W MAX. LOAD FOR CLASS 2

LNG

```
LineDrive LD-E Series
Non-Dimmable
Power Supply
```

↓

```
SHWC
Controller
```

→

96W MAX. LOAD FOR CLASS 2

LNG

```
LineDrive LD-E Series
Non-Dimmable
Power Supply
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↓

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SHWC
Controller
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→

96W MAX. LOAD FOR CLASS 2

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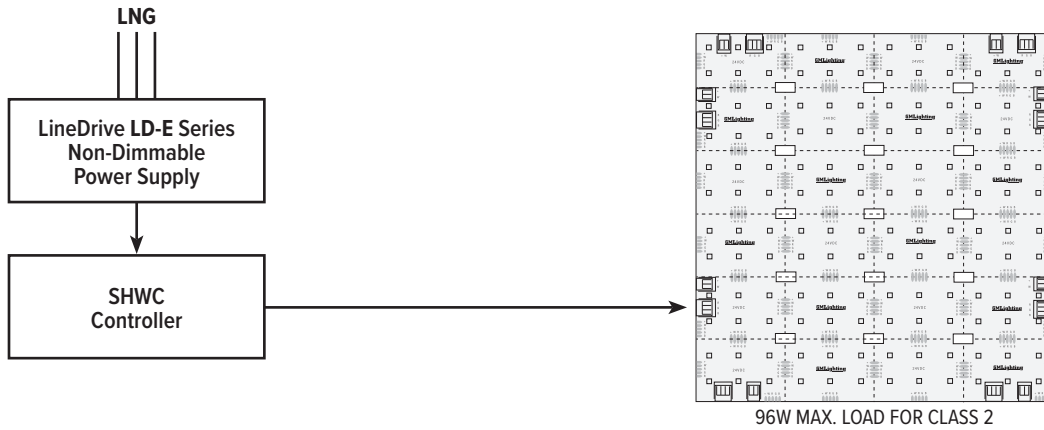
SHWC LUXCONTROL WIFI CONTROLLER WITH POWER REPEATER

THIS CONFIGURATION WILL SHOW UP AS ONE GROUP IN THE LUXCONTROL APP

LNG

LineDrive **LD-E** Series Non-Dimmable Power Supply

SHWC Controller

LNG

LineDrive **LD-E** Series Non-Dimmable Power Supply → SHWC-RPT Repeater

96W MAX. LOAD FOR CLASS 2

LNG

LineDrive **LD-E** Series Non-Dimmable Power Supply → SHWC-RPT Repeater

96W MAX. LOAD FOR CLASS 2

LNG

LineDrive **LD-E** Series Non-Dimmable Power Supply → SHWC-RPT Repeater

TO ADDITIONAL REPEATERS AND POWER SUPPLIES

96W MAX. LOAD FOR CLASS 2

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SHWD LUXCONTROL WIFI DIMMER

L
N
N
G

| SHWD WIFI DIMMER |

150W MAX. LOAD

| LineDrive **LD-ED** Series Dimmable Power Supply |

96W MAX. LOAD FOR CLASS 2

96W MAX. LOAD FOR CLASS 2

96W MAX. LOAD FOR CLASS 2
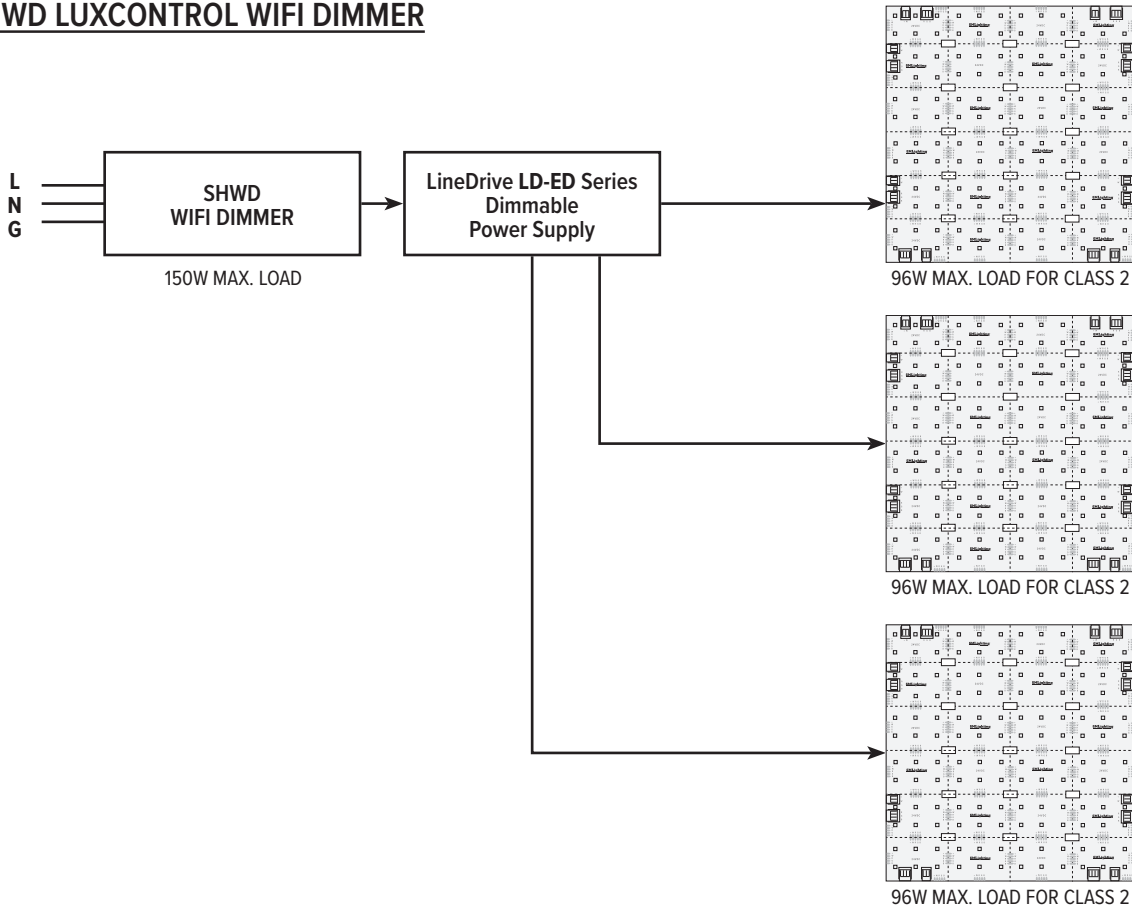
SWITCHLD SWD DRIVER AND DIMMER

SWITCHLD-SWD 24VDC

L
N
G

24V - 80W MAX. LOAD

96W MAX. LOAD FOR CLASS 2

96W MAX. LOAD FOR CLASS 2

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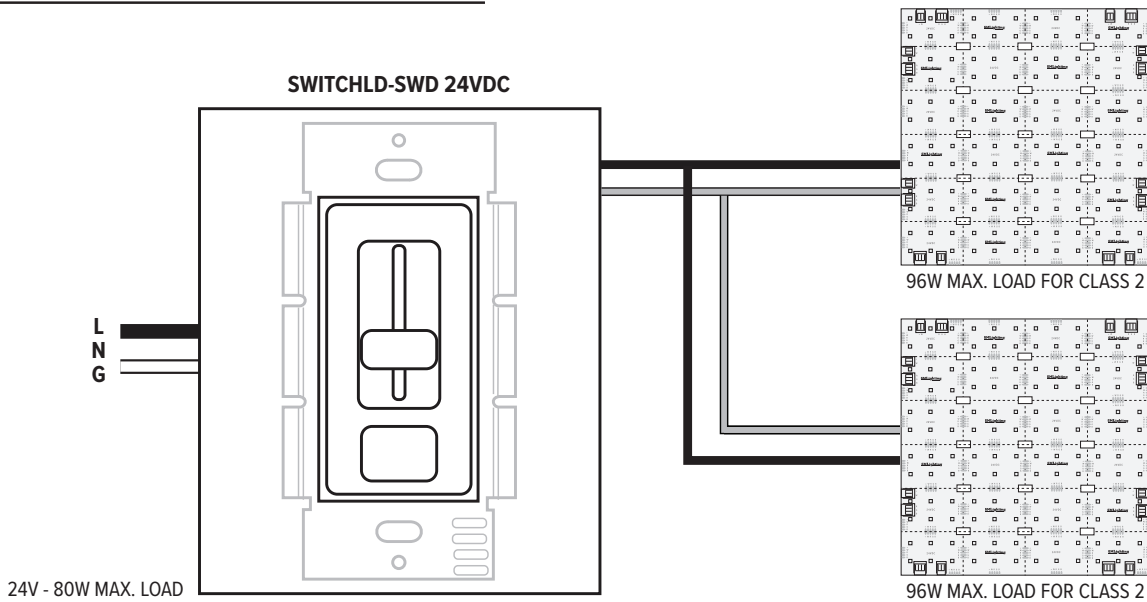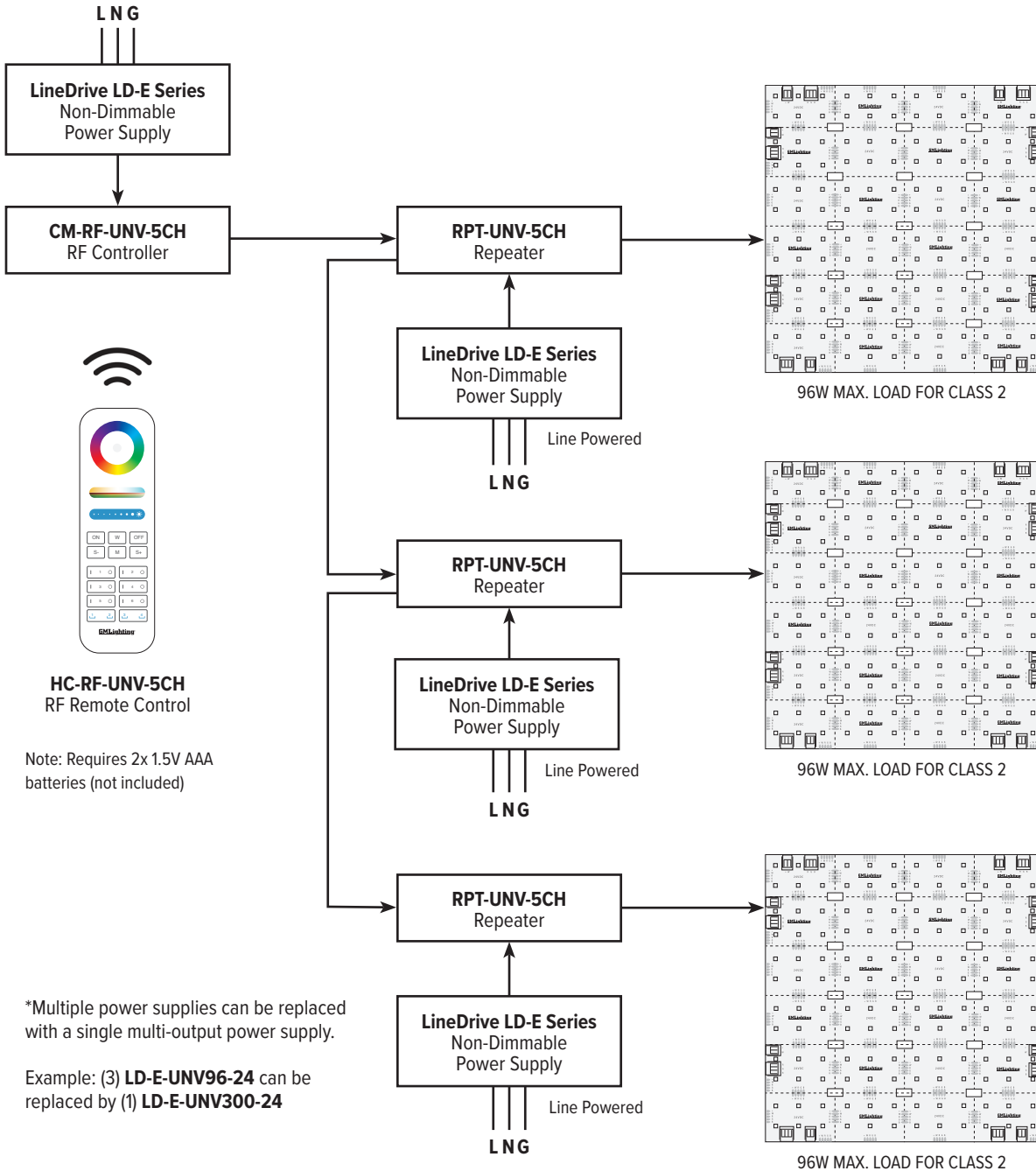
UNIVERSAL RF CONTROLLER WIRING DIAGRAM

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.
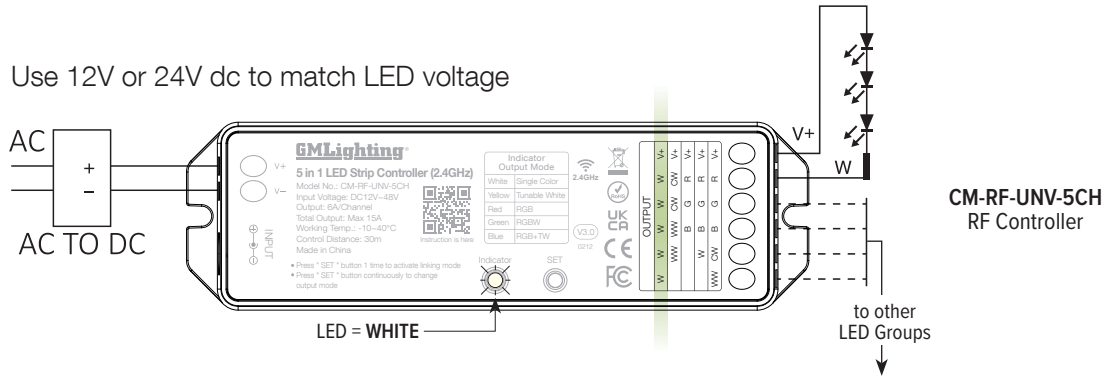See Controller instructions for pairing and wiring details.

L N G

LineDrive LD-E Series
Non-Dimmable
Power Supply

CM-RF-UNV-5CH
RF Controller

RPT-UNV-5CH
Repeater

96W MAX. LOAD FOR CLASS 2

LineDrive LD-E Series
Non-Dimmable
Power Supply

Line Powered

L N G

HC-RF-UNV-5CH
RF Remote Control

Note: Requires 2x 1.5V AAA
batteries (not included)

RPT-UNV-5CH
Repeater

96W MAX. LOAD FOR CLASS 2

LineDrive LD-E Series
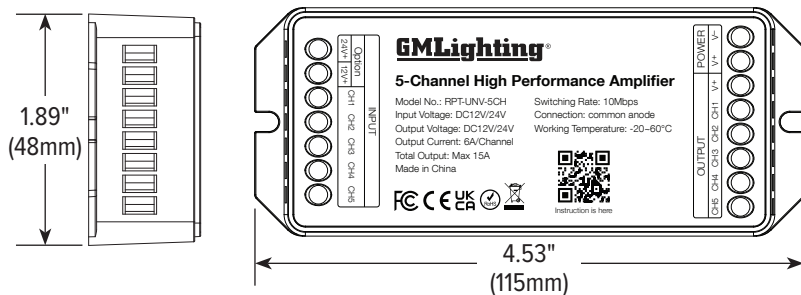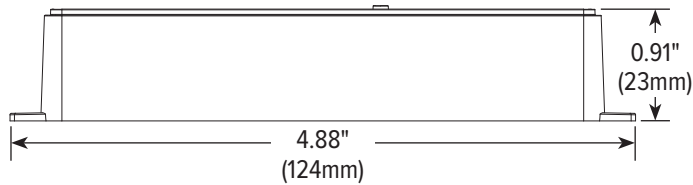Non-Dimmable
Power Supply

Line Powered

L N G

*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**

RPT-UNV-5CH
Repeater

LineDrive LD-E Series
Non-Dimmable
Power Supply

Line Powered

L N G

96W MAX. LOAD FOR CLASS 2

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RF REMOTE CONTROLLER AND REPEATER

Use 12V or 24V dc to match LED voltage

CM-RF-UNV-5CH
RF Controller

LED = **WHITE**

to other
LED Groups

DIMENSIONS

DC
Terminals

DC
Jack Input

LED Indicator
for Output Mode

SET Button
for Output Mode

1.5"
(38mm)

CM-RF-UNV-5CH
RF Controller

0.91"
(23mm)

4.88"
(124mm)

1.89"
(48mm)

RPT-UNV-5CH
Repeater Amplifier

4.53"
(115mm)

1.06"
(27mm)

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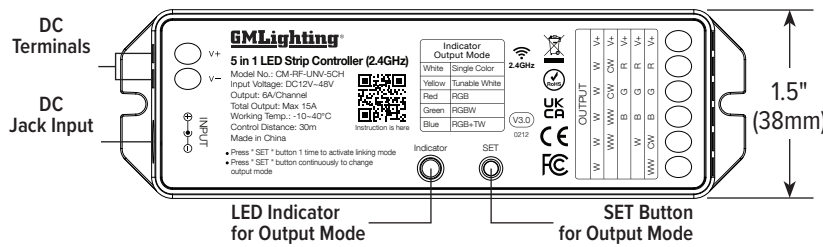
RF HAND HELD REMOTE FEATURES AND DIMENSIONS

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

Color Ring

Indicator Light

Saturation Control
(when RGB is on)

CCT Control
(when Tunable White is on "W")

Dimming Slider

White/Tunable White

Master **ON**

Master **OFF**

Speed - (for Mode)

Speed + (for Mode)

Mode

"❙" Zone **ON** / Link(Unlink)

"○" Zone **OFF**

Allows up to 6 zones. Can have different remotes for each zone.

Preset

ON | W | OFF
S- | M | S+

1 | 2
3 | 4
5 | 6

1 | 2 | 3 | 4

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0.7"
18mm

1.88"
47.7mm

6.0"
152mm