# IMPACT LIGHTING®

# StoneGlow™ LED Sheet

# INSTALLATION MANUAL



## StoneGlow™ QUICK SPECS

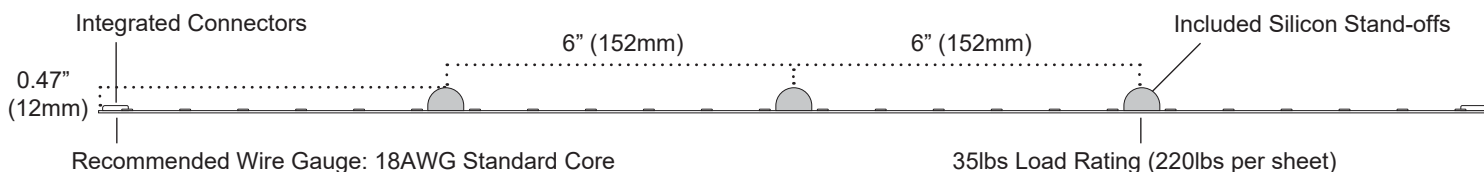| | |
|---|---|
| **VOLTAGE** | 24V DC |
| **WATTAGE** | Up to 35 Watts per sheet  (18.5 per sq ft) |
| **CRI** | 90+ |
| **MAX RUN** | 96W (5 Sheets Total) Per Wire |
| **IP RATING** | IP20 |
| **DIMMING** | 5 - 100% |
| **DIMENSIONS** | 12" (304.8mm) W x 24" (609.6mm) H |
| **BEAM ANGLE** | 120° |
| **OPERATING TEMP** | -20°C (4°F) to 45°C (113°F) |
| **CERTIFICATIONS** | cULus Listed - Maintains UL listing when cut |
| **RATED LIFE** | 50,000 Hours - L70 or 70% of Initial Lumen |
| **INPUT** | 12VDC Constant Voltage |
| **POWER** | 35W per sheet / .31W per square ft |
| **AMBIENT TEMP*** | -4° - 122°F (-20° - 50°C) |
| **ENVIRONMENT**** | Indoor/Dry Location |

## IMPORTANT - Before you start

**Make sure you have all necessary parts and accessories as shown on the next page before you take it to the job site.**

**Read directions carefully.**
**Contact us with any questions:**

**Email:** Sales@impactlightinginc.com
**Website:** https://impactlightinginc.com
**Phone:** (800) 507-5714

## Quick Dimensions

Integrated Connectors

6" (152mm)    6" (152mm)

Included Silicon Stand-offs

0.47"
(12mm)

Recommended Wire Gauge: 18AWG Standard Core

35lbs Load Rating (220lbs per sheet)

# IMPORTANT - Before you begin

## BEFORE THE JOB SITE: This is what you need.

### WHAT COMES IN THE PACKAGE

- ✓ StoneGlow™ LED Sheets

- ✓ Clear Silicon Supports

- ✓ Jumpers - RGBW Only

### ACCESSORIES: Order Separately

- ✓ Wireless RF Controller

- ✓ Power Supply

- ✓ DMX Decoder OR RF Receiver

- ✓ Extra Jumpers - RGBW only

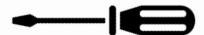---

## TOOLS NEEDED

- ✓ Wire Stripper/Cutter

- ✓ Scissors

- ✓ Drill

- ✓ Hot Glue Gun with Glue sticks

- ✓ Screwdriver

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## CALCULATE POWER REQUIREMENTS

### WIRE GAUGE & VOLTAGE DROP

- Ensure applicable wire is installed between driver, fixture, and any controls in between.

- When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.)

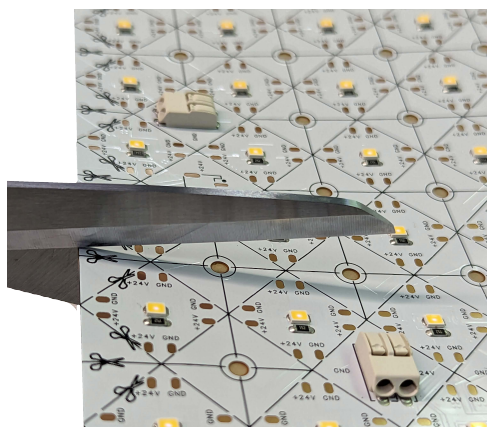**--> ADD 20% Buffer to total watts**

For Example:
1 - 12" x 24" (2 sq ft) sheet is 35 Watts
5 sheets x 35 Watts = 175 Watts x 1.2
(20% Buffer) Equal 210 Watts

**USE 240W POWER SUPPLY**

## ① CUT SHEET IF NEEDED

- When cutting, ensure to only cut along dashed or solid straight lines.
- Do not cut connection point from sheet. This is required for installation.
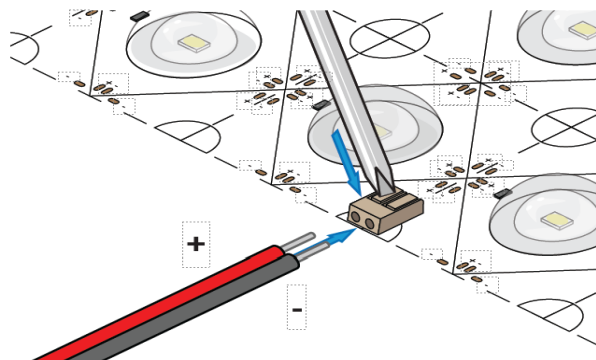


## ② PEEL BACK OFF

- **Peel 3M back off StoneGlow™ LED Sheet.**
- **Clean Surface**
- **Place on your material.**



## ③ CONNECT WIRING

- Use a screwdriver to depress tabs on connector and push in wires.
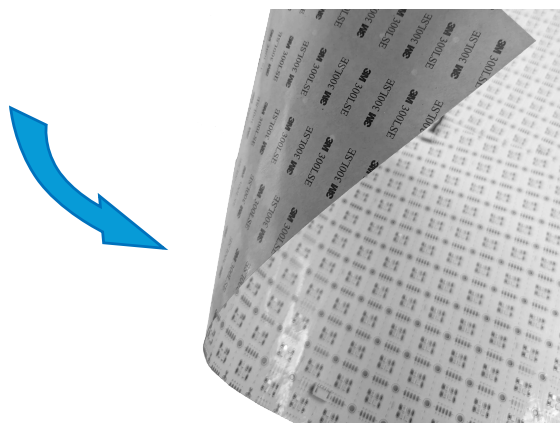
  *Ensure polarity is correct.*
  *Make sure positive + is connected to positive + and Negative - is connected to Negative -*



**Recommended Wire Gauge:**
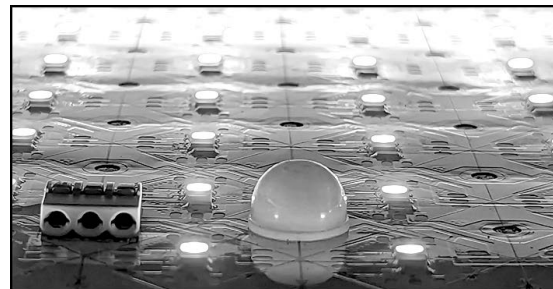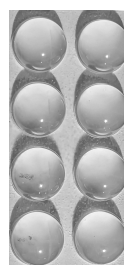
**18AWG (Standard Core)**

## ④ Place Silicon Supports on StoneGlow™ Sheet.

- **Peel and stick on the LED Sheet to help lift and support your material.**
- **Space evenly**



## ⑤ CONNECT TO POWER AND LIGHTING CONTROL

**See Wiring Diagrams on next pages for details**

**Recommended Wire Gauge: 18AWG (Standard Core)**

**UL LISTED 100W 24VDC Class 2 w/ 4amp current capacity outdoor rated power supply**

> **IMPORTANT**
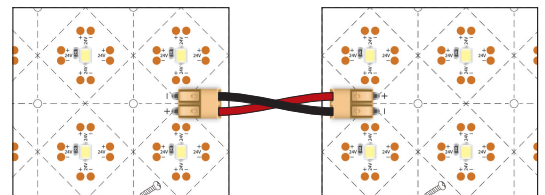> Every 5 - 12" X 24" Sheets requires a home run
> to the Power Supply

110-240VAC

**24VDC Power Supply**

BLACK

RED

Home Run

Home Run

Home Run

24VDC

5  4  3  2  1

5  4  3  2  1

5  4  3  2  1

***Drawing shows 15 sheets**

BLUE  BROWN

**AC Power
To Switch or
*Dimmer**
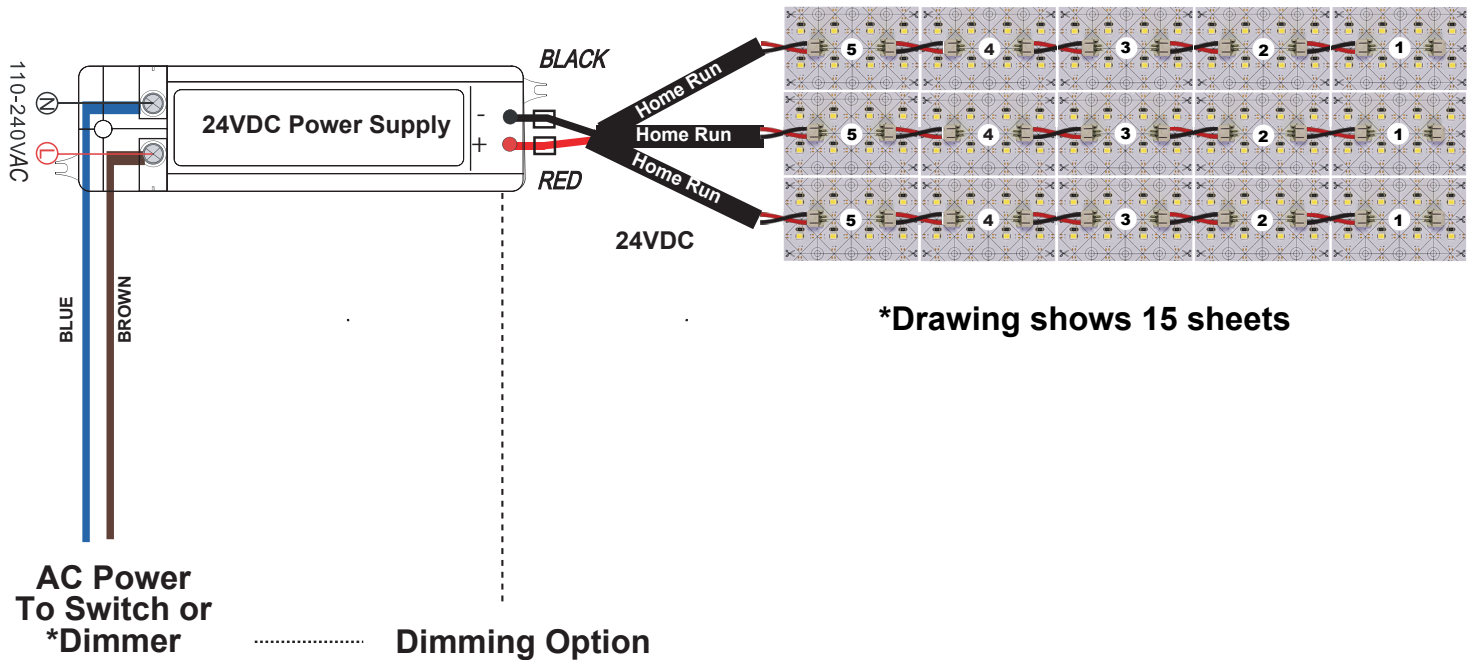
............... **Dimming Option**

***For dimming
use a UL Listed
24VDC Magnetic
Dimmable
Transformer**

**UL Listed 24VDC
Magnetic Dimmable Transformer**

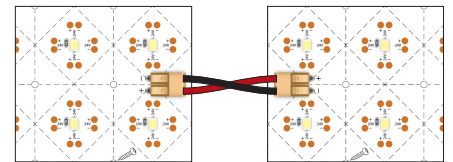**Example of Sheet to Sheet Jumper
Linking**
**SINGLE WHITE LED**

10/2023

**Recommended Wire Gauge: 18AWG (Standard Core)**



BLACK WIRE - NEG /-

RED WIRE - POS /+

**Example of Sheet to Sheet Jumper Linking**
**SINGLE WHITE LED**

**IMPORTANT**
**5 MAX SHEETS PER RECEIVER**
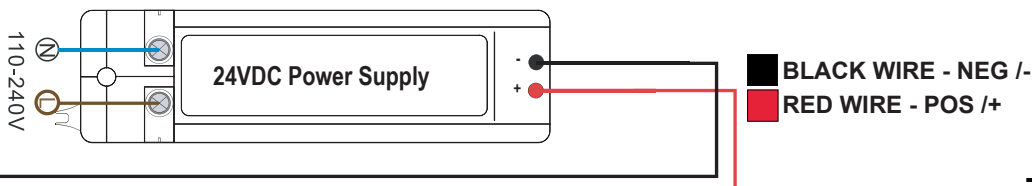
**\*Drawing shows 15 sheets**

WIRELESS DIMMER

# StoneGlow™ TUNABLE LED Sheets

## Wiring Diagram-*Optional Wireless System (Sold Separately)

**IMPORTANT**
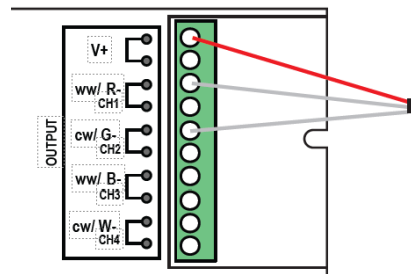**Every 5 - 12" X 24" Sheets requires a home run to a RECEIVER**

24VDC Power Supply

110-240V

**BLACK WIRE - NEG /-**
**RED WIRE - POS /+**

**Tunable White Wiring**
Any color wire will work.

**Recommended Wire Gauge:**
18AWG (Standard Core)

**EXAMPLE SHOWS:**
RED WIRE **- POS/+**
WARM WHITE WIRE **- WW /R-**
COOL WHITE WIRE **- CW / G-**

V+
ww/ R- CH1
cw/ G- CH2
ww/ B- CH3
cw/ W- CH4
OUTPUT

RF Receiver
Easy Dimmer Series

DC INPUT 12/24V
v+ v-
Pairing Switch
MASTER SLAVE

V+
ww/ R- CH1
cw/ G- CH2
ww/ B- CH3
cw/ W- CH4
OUTPUT

**IMPORTANT**
5 MAX SHEETS PER RECEIVER

**Example of Sheet to Sheet Jumper Linking**

***Drawing shows 15 sheets***

1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
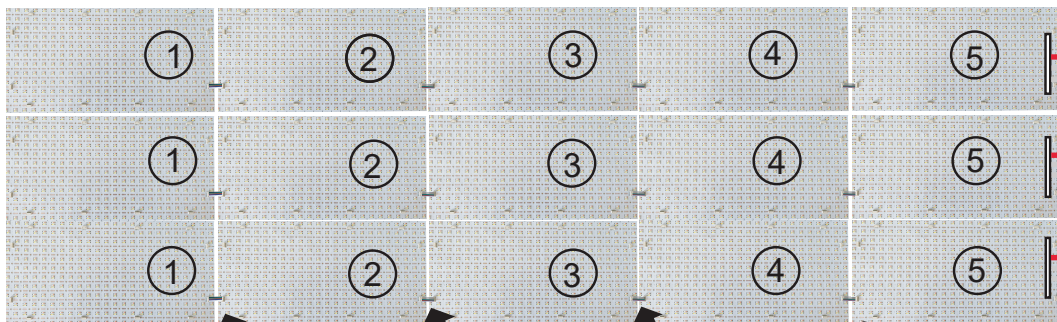
**Tunable White Jumpers**
Use 3 wires. Not Included.

**WIRELESS DIMMER**
Push ON/OFF

10/2023
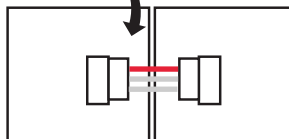
# TROUBLESHOOTING and TOOL TIPS

**NOTES:**

▶ **Problem:**

▶ **Possible Cause:**

▶ **Solution:**