

LLS RGB LED Sheet

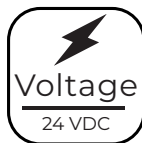
Flexible LED Sheet Specifications

Project _____

Date _____ Type _____



LLS-CRGB-A12A-60A01-24V



AVAILABLE VERSIONS

☐ LLS-CRGB-A12A-60A01-24V

SAMPLE PART NUMBER BREAKDOWN

LLS-CRGB-A12A-60A01-24V

FAMILY / CATEGORY / COLOR		LED TYPE / SEGMENT		IP RATING	SIZE / DENSITY / VOLTAGE			
LLS Strip Type	CRGB Strip Type	A LED Type	12 LED/Segment	A IP Rating	60 Wattage	A LEDs/Sheet	01 Sheet Size	24V Voltage
LLS: Strip Sheet	CRGB: RGB	A: 5050	12: 12 LEDs/seg	A: IP20	60: 60 W	A: 288	01: 18.9 x 9.4 in. (480 x 240 mm)	24V: 24 V

Description

The LLS series RGB LED sheet is a fully customizable and color changing flexible LED sheet. This sheet is perfect for backlighting displays, light boxes, lettering and logos, billboards, translucent design materials, and more. The high density of LEDs—288 LEDs per sheet—provides smooth, bright illumination free of hotspots. Easily link together multiple sheets or pieces using the onboard soldering connections.

Construction

- 18.9 in. x 9.4 in. sheet with twenty-four 4.72 in. x 1.58 in. segments per sheet
- Customizable to fit unique applications sizes and shapes—bendable and cuttable in the field
- 3M™ adhesive backing for quick, secure installation
- Pre-marked spots to fasten with screws¹ or nails
- Ambient operating temperature of -4°–113° F
- 4 solder points per segment (with 4 pads at each point)
- 19.5" 22 AWG lead wire length
- 12 LEDs per segment, 288 LEDs per sheet

Electrical

- 24 VDC input voltage
- 60 W max / 2.5 A max current draw per sheet
- 0-100% PWM dimming
- 16.4 ft (5 m) single column/row max run² or 3 full sheet max run²
- Long 50,000 hour L70 rated life

Applications

Some common applications include letters, logos and other types of sign and retail lighting, backlighting, lightboxes, translucent materials such as acrylic, stone, and glass, photographic light, ceiling, wall, and other architectural lighting.

Accessories

There are a variety of RGB and DMX/RDM controllers which are compatible with LLS flexible RGB LED sheets. Use this QR code to shop controllers and other compatible accessories.



Warranty

Five (5) year warranty.

Certifications and Compliances

These are UL Listed in compliance with UL 2108 (IFDR). They are also CE compliant.



¹Fasteners must have a flat bottom on the head to avoid damage to the sheet.

²Max run listed is using a single power supply connected at one end of the run.



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https://www.superbrightleds.com/cat/flexible-led-sheet-lights/

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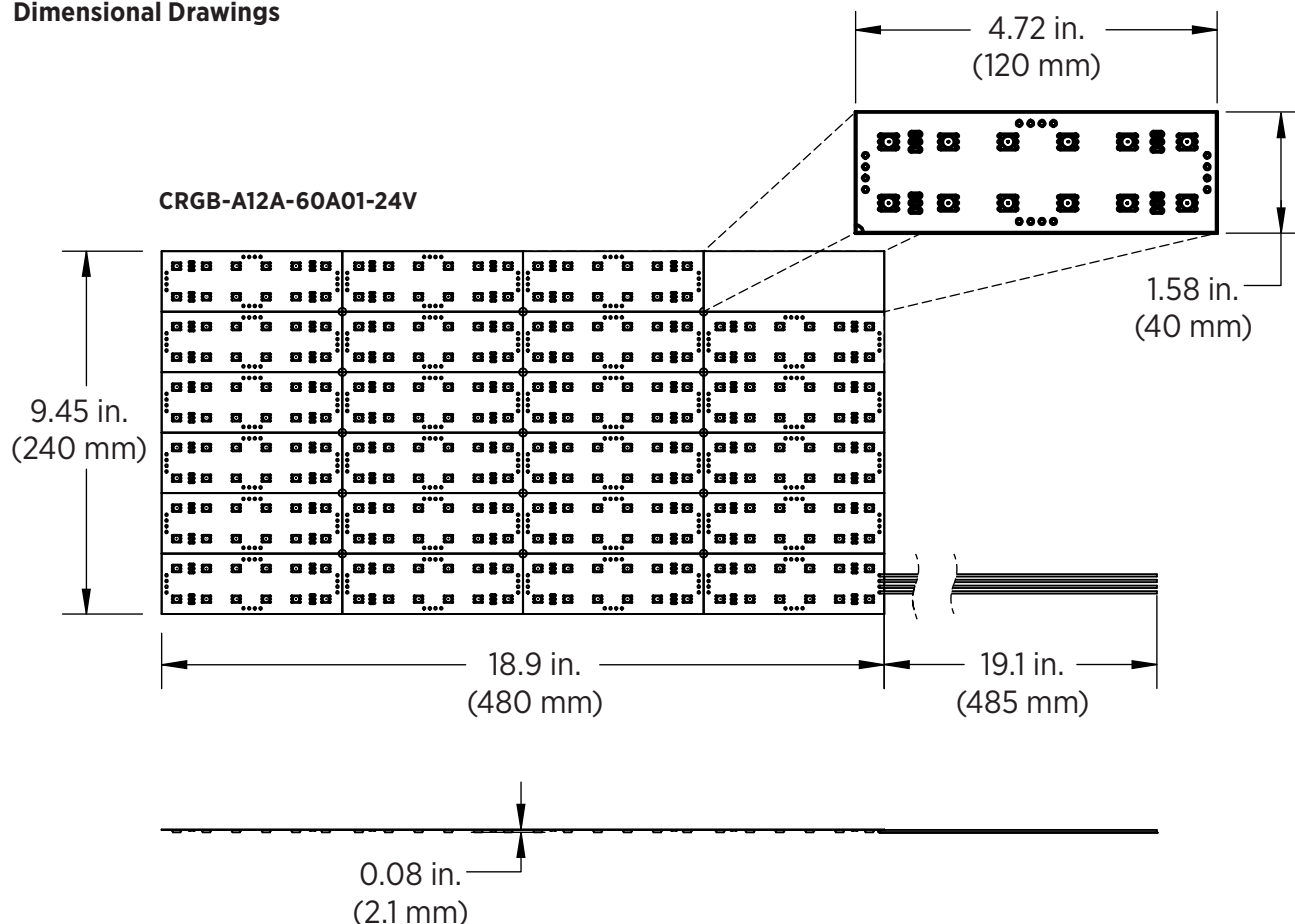
Specifications are subject to change without notice.

Printed in the U.S.A.

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Dimensional Drawings



Specifications

Model	LLS-CRGB-A12A-60A01-24V
Input Voltage	24 VDC
Power Consumption	60 W per sheet / 2.5 W per segment
Current Draw	2.5 A per sheet / 104 mA per segment
LEDs/segment	12
Brightness (full sheet)	2,550 lm (all), 750 lm (red only), 1,425 lm (green only), 375 lm (blue only)
Beam Angle	120°
Max Run	16.4 ft (5 m) single column/row max run ² 3 full sheet max run ²
Enclosure Rating	minimum 1.18 in. (30 mm) spacing
Ambient Operating Temperature	-4°-113° F (-20°-45° C)
LED Lifetime	50,000 hours (L70)
Power Factor	≥0.9

²Max run listed is using a single power supply connected at one end of the run.

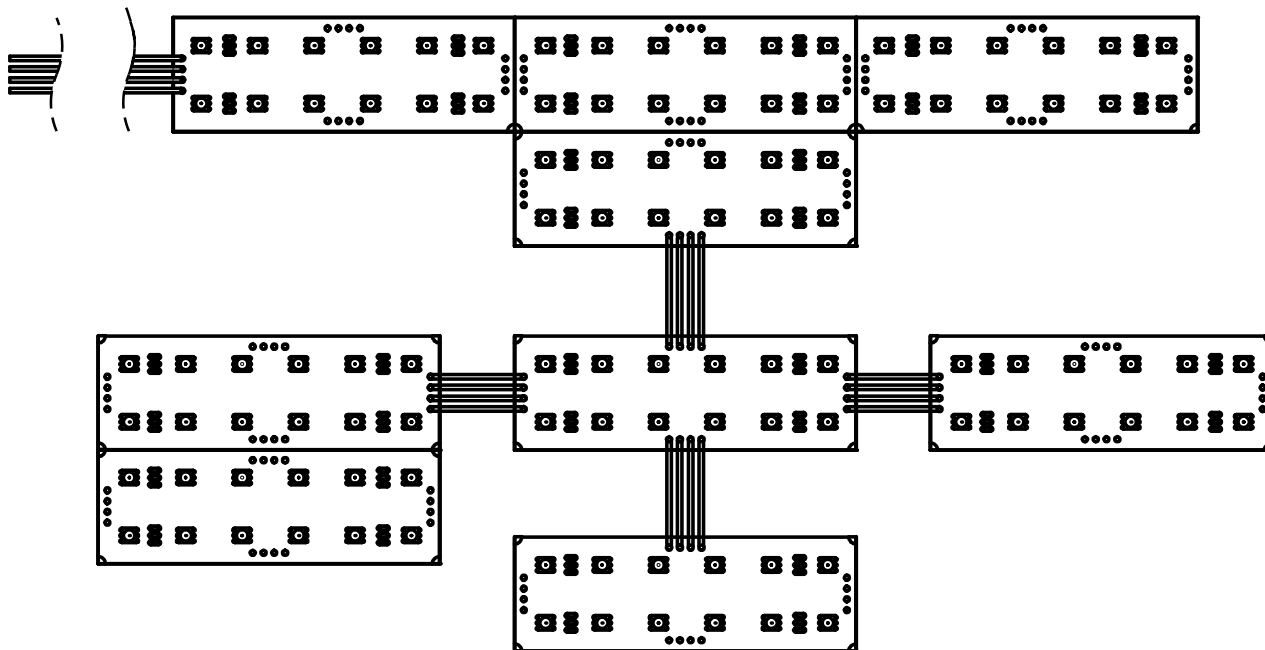


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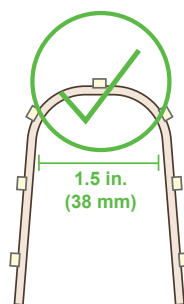
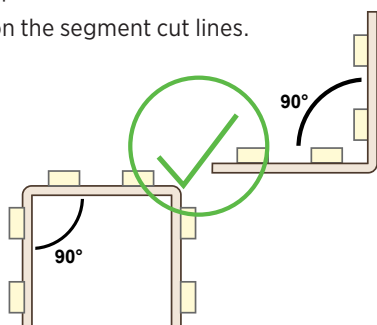
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Cutting Segments And Strip Flexibility

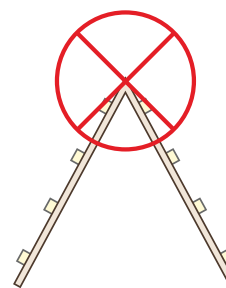
LED sheets can be cut into many custom shapes. When cutting sheets, it is important to use only the pre-marked cut lines on the sheet to maintain electrical contact between segments. Each segment has one set of contacts on each its four sides. When uncut, each section will automatically connect to adjacent sections, but any configuration can be connected by soldering suitable wiring to the solder pads of two segments.



Hard bends can be made up to 90° in either direction on the segment cut lines.



Soft bends less than 1.5 in. may damage circuit traces and void warranty.



Bending LED sheets or sections at sharp angles or at places other than designated cut lines will damage circuit traces and void warranty.