Quick Specs // LED Sheets

Flexible LED Light Sheet

**Item #: AG-G102-0420-24 Series**

**Electrical**

- **Input Voltage:** 24 Volt DC - Constant Voltage
- **Power Consumption:** 12 Watts / sheet (9.45 W / ft²; 101.7 W / m²); 0.029 W/LED
- **Wire Size:** 20 AWG 2 wire (Grey Stripe +, Solid White -)

**Physical**

- **Color Temperature:** 2700K, 3000K, 3500K, 4100K & 5300K
- **CRI:** 92+ for 2700K; 95+ for 3000K, 3500K, 4100K & 5300K
- **Mounting:** Screws can be used within circles marked on the sheet. Use mechanical fasteners when mounted vertically or suspended. 3M adhesive backing is a supplementary method.
- **Operating Temp.:** -22°F - +158°F (-30°C - +70°C)
- **Environment:** Wet location (IP65 rated)
- **Coverage:** 1.27 ft² (0.118m²) per sheet / up to 10.18 ft² (0.94m²) per Class 2 guidelines
- **Cut/Fold Line Spacing:** 0.660” (16.786mm) short axis / 0.661” (16.767mm) long axis
- **Single Sheet Size:** 19.800” x 9.252” (503.5mm x 235mm)
- **Weight:** 5.0oz (141g) per sheet
- **Flexible/Foldable PCB:** Polyimide film substrate
- **Weight:** 5.0oz (141g) per sheet
- **Customization Options Available:** Pre-cut, pre-mounted, specific color temperatures, IP20 -22˚F ~  +158˚F (-30˚C ~ +70˚C) suspended. 3M adhesive backing is a supplementary method. Screws can be used within circles marked on the sheet. Use mechanical fasteners when mounted vertically or suspended. 3M adhesive backing is a supplementary method.

**Power & Controls**

- **Certification:** UL Listed (E495221); CE Compliant, RoHS Certified
- **Connector:** Twelve integrated 2-pin connection blocks
- **Lead Wire Length:** One 24” (61cm) 20AWG power lead included with each sheet
- **Wiring:** 20 AWG 2 wire (Grey Stripe +, Solid White -)
- **Wire Size:** 12 Watts / sheet (9.45 W / ft²)
- **Power Consumption:** 24 Volt DC - Constant Voltage
- **Input Voltage:** 24V
- **Features:**
  - Field Customizable • Maintains UL Listing when cut*
  - Full Integration Support • Included
  - Unique Power Distribution Grid • Groups or single LEDs can be cut* from any part of the Light Sheet
  - Flexible/Foldable PCB • Polyimide film substrate
  - Consistent Light Quality • Tight ANSI bin control
  - LED Quantity / Density • 420 SMD type 2835 LEDs per sheet / 330 LEDs per ft² (3559 LEDs per m²)
  - Energy Efficiency • Over 90 lumens per watt
  - Long Lifespan • 50,000 hours (rated life)
  - Advanced 5-Year Warranty • Included

**Product Wiring Advisory**

1. To retain UL Listing, use only with UL Listed or UL Recognized Class 2, LPS, or LVLE power supply.
2. The Light Sheet's integrated 2-pin connection blocks have a 4A capacity. Do not exceed the load capacity of these connection blocks in any configuration.
3. To retain Class 2 compliance per UL regulations, do not interconnect more than eight sheets (96W total). Use only with Class 2 power supply.
4. To avoid visible brightness variances due to voltage drop, the total distance should not exceed 6.5 feet (2 meters) from the power source to the farthest end of any interconnected sheet. If the distance exceeds 6.5 feet, splice on higher gauge lead wire based on attached load and run distance.
5. For optimal current flow through the interconnected sheets, connect adjacent Light Sheets with two sheet-to-sheet connection wires on each side.

**Packaging**

Each Auragami™ Light Sheet includes a full 3M adhesive backing and an Accessory Pack. See Accessory Pack Contents below. Light sheets are sold as single sheets, boxes of four and cartons of 40.

**Connector Block Locations**

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<tr>
<th>1.980” (50.300mm)</th>
<th>5.28” (134.133mm)</th>
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**Accessory Pack Contents**

- 4) 0.71” (1.8cm) 20AWG sheet-to-sheet connection wires
- 4) 3.75” (9.5cm) 20AWG sheet-to-sheet connection wires
- (1) Stripped power lead with connector, 20AWG, 24” (61cm) length
- (2) Wago® splicing connectors - use for connecting wires with same polarity
- (4) Cable management clips with 3M adhesive backing
- (8) Domed spacing bumpers with 3M adhesive backing
- (1) Installation Manual

*NEVER CUT AURAGAMI LIGHT SHEET(S) WHILE POWERED.

**Patent Pending**