evo-lite ADVANCED LUMINOUS SOLUTIONS | **Auragami®** GEN2

SPECIFICATION SHEET
Specifications subject to change without notice. Visit us online for the most current information.

PATENTED

SINGLE COLOR WHITE
FLEXIBLE LIGHT SHEET
BACKLIGHTING // FLEXIBLE LIGHT SHEETS // AURAGAMI

PART #: AG2-24-**XX**-1224 | **XX** = **27**00K, **30**00K, **35**00K, **40**00K, **50**00K

Product Description: Auragami Gen 2 Single Color White is the most advanced light sheet ever created. It features revolutionary improvements over the original award-winning AG1 series.

HIGHLIGHTS

- Available in five single color white temperatures
- New and improved IP67 connectors, cut lines, and bumpers
- IP67 Rated for wet locations with newly engineered polyimide coating
- Cuttable down to a single LED or LED group while maintaining UL Listing
- Easy installs with plug-in-play light sheet connections
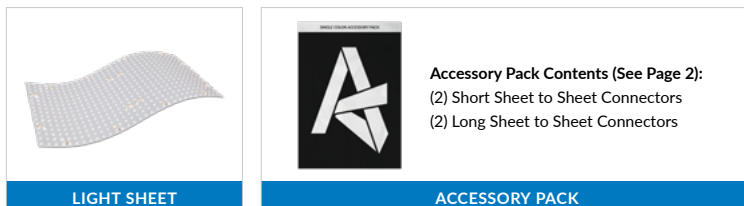- Patented design exemplifies ingenuity and advantage

c(UL)us LISTED   CE   RoHS COMPLIANT   UKCA   **24VDC** Low-Voltage   Dimmable   **50K** Rated Life   **5-YEAR** Warranty

ELECTRICAL

Input Voltage	24VDC – Constant Voltage
Power Consumption	17.2W per sheet (8.6W/ft², 93W/m²); 0.034W per LED
Wires	20AWG 2 wire (grey striped wire +, white wire –)
Connections	IP67 premium grade terminals and plug-in sheet connectors
Certifications	UL Listed (E495221), CE Compliant (EMC and LVD), RoHS Certified, UKCA

PHYSICAL

Color Temperature	2700K, 3000K, 3500K, 4000K, 5000K
CRI	92+ for 2700K, 95+ for 3000K, 3500K, 4000K, 5000K
Light Output	1720 lumens per sheet
Mounting	Use mechanical fasteners through marked mounting holes. Adhesive backing is a supplementary method.
Operating / Working Temperature	**Operating:** -22°F to 122°F (-30°C to 50°C), **Working:** 93°F (34°C),
Surface Temperature	**LED:** 97°F (36°C), **PCB:** 90°F (32°C), **Resistor:** 93°F (34°C) (Measurements taken at ≥ 2 hours of operation)
Environment	IP67 – wet and dry locations
Coverage	2ft² (0.19m²) per sheet / up to 10ft² (0.93m²) per Class 2 guidelines
Cut/Fold Line Spacing	0.75" (19.5mm) short axis / 0.75" (19.5 mm) long axis
Dimensions	12" x 24" (304.8mm x 609.6mm), field cuttable
Weight	0.65lbs / 10.4oz / 295g

FEATURES

Field Customizable	Maintains UL Listing when cut
Full Integration Support	From concept to completion
Unique Power Distribution Grid	Groups or single LEDs can be cut from anywhere on light sheet
Flexible / Foldable PCB	Polyimide film substrate
Consistent Light Quality	Tight ANSI bin control LEDs
LED Quantity / Density	512 SMD type 2835 LEDs per sheet
Energy Efficiency	100 lumens per watt
Long Lifespan	50,000 + hours
Advanced 5-Year Warranty	Visit section 19 of evo-lite.com/legal-documents#terms

POWER & CONTROLS

Compatible with all control protocols via associated power and control components. Quality tested for low-end light output consistency across all LEDs (100-0%).
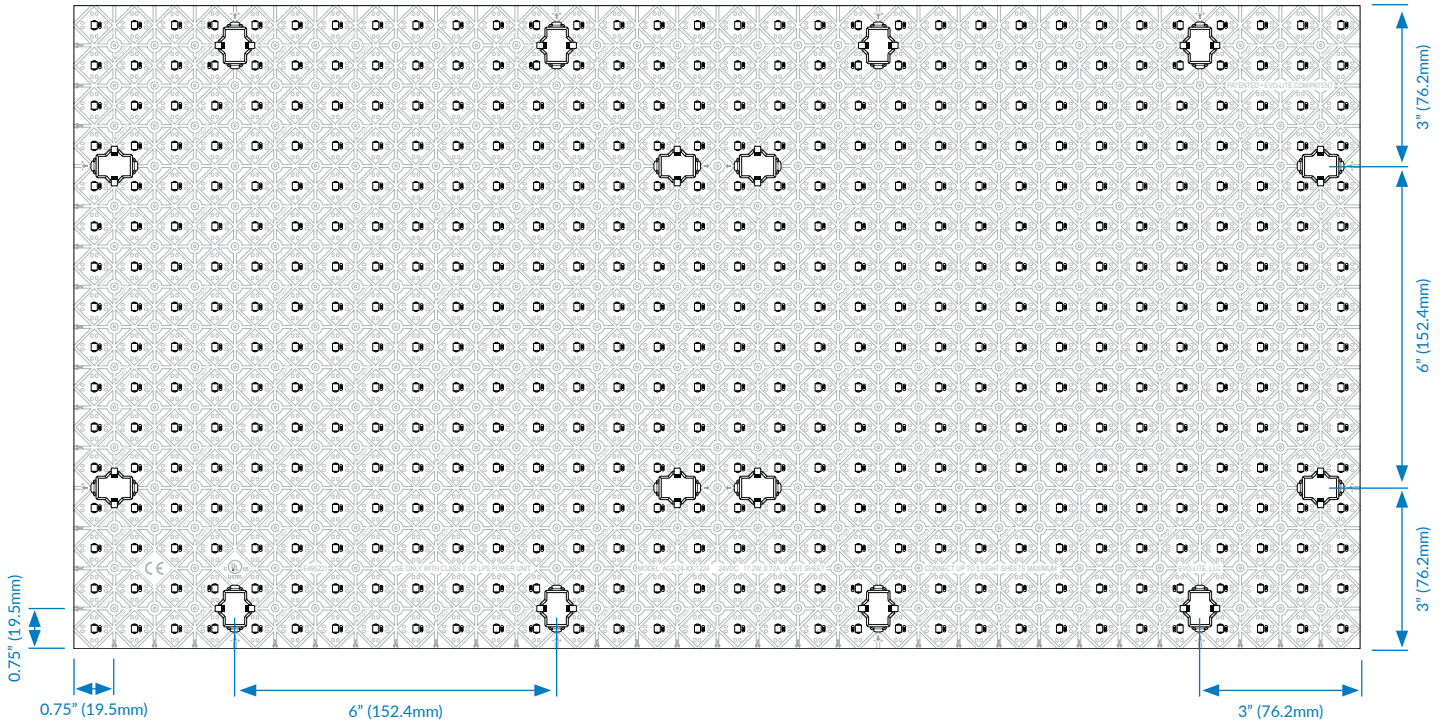
CLASS 2 & UL COMPLIANCE

Use Class 2 power supplies with a maximum power output of 96W (per channel/circuit) to retain UL Class 2 Listing compliance. Best practices include allowing headroom for power supply longevity.
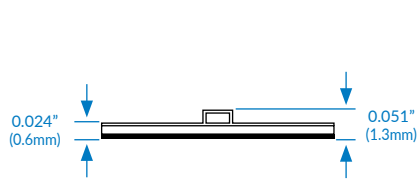
PRODUCT CONTENTS

Each Auragami Gen 2 Light Sheet comes standard with the following items:

Accessory Pack Contents (See Page 2):
(2) Short Sheet to Sheet Connectors
(2) Long Sheet to Sheet Connectors

LIGHT SHEET

ACCESSORY PACK

COMPLETE YOUR SYSTEM (SOLD SEPARATELY)

Don't forget to order the appropriate lighting system components.

POWER INPUT KIT

24VDC POWER SUPPLY

LIGHTING CONTROL

AG2 SINGLE COLOR WHITE LIGHT SHEET (INCLUDED)

3" (76.2mm)

6" (152.4mm)

3" (76.2mm)

0.75" (19.5mm)

0.75" (19.5mm)

6" (152.4mm)

3" (76.2mm)

LIGHT SHEET & LED HEIGHT

0.024" (0.6mm)

0.051" (1.3mm)

IP67 TERMINAL DIMENSIONS

Top view with cover

Top view without cover

End view with cover

Side view with sheet connector

0.75" (19mm)

0.75" (19mm)

0.43" (11mm)

0.28" (7mm)

0.36" (9.2mm)
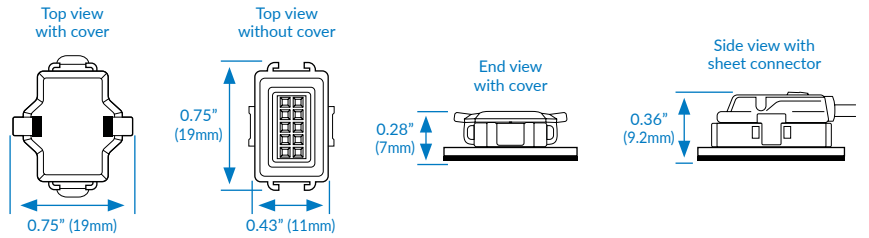
ACCESSORY PACK (INCLUDED)

Short Sheet To Sheet Connector (Qty. 2)

0.71" (18mm)

2.28" (58mm)

Long Sheet To Sheet Connector (Qty. 2)

0.71" (18mm)

6.1" (155mm)
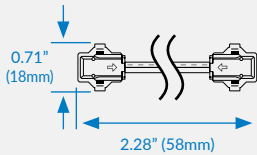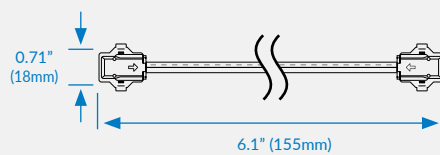
BUMPER PACK (SOLD SEPARATELY)

Quad Bumpers (Qty. 8)

1.6" (40.5mm)

1.6" (40.5mm)

1.6" (40.5mm)

0.47" (12mm)
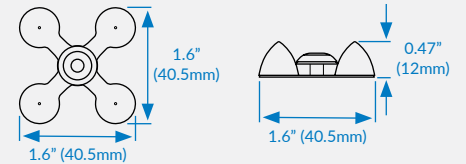
POWER INPUT KIT (SOLD SEPARATELY)

Power Input Cable (Qty. 1)

0.71" (18mm)

48" (1220mm)

Cable Clips (Qty. 4)

0.39" (10mm)

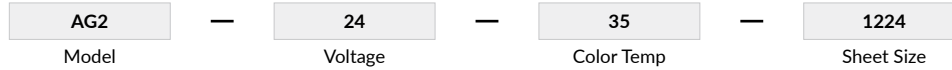1.22" (31mm)
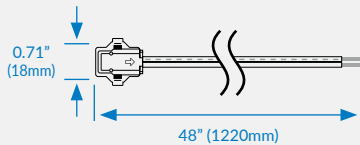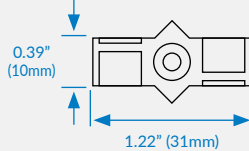
Wago Connectors (Qty. 2)

0.71" (18mm)

0.51" (12.9mm)
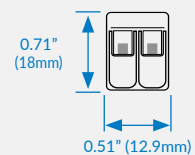
SINGLE COLOR WHITE LIGHT SHEETS (Customization options available, see bottom of page.)

MODEL	VOLTAGE	COLOR TEMPERATURE	SHEET SIZE
AG2 - Auragami Gen 2	**24** – 24VDC Constant Voltage	**27** – 2700K	**1224** – 12" by 24"
		30 – 3000K	
		35 – 3500K	
		40 – 4000K	
		50 – 5000K	

Example Part Number

AG2	—	24	—	35	—	1224
Model		Voltage		Color Temp		Sheet Size

SINGLE COLOR ACCESSORIES (SOLD SEPARATELY)

| ITEM	PART NUMBER	DESCRIPTION
Single Color Power Input Kit (Required)	AG2-SC-PIK	Powers one 24VDC Class 2 circuit (86W / 5 full light sheets). Includes (1) 48" single color power input cable, (2) Wago splicing connectors, and (4) wire management clips.
Short Sheet To Sheet Connectors	AG2-24-SC-SCP	(4) Additional Single Color Short Sheet To Sheet Connectors.
Long Sheet To Sheet Connectors	AG2-24-SC-LCP	(4) Additional Single Color long Sheet To Sheet Connectors.
Light Sheet Bumpers	AG2-075-047-QSB-P08	(8) Additional Light Sheet Quad Bumpers for single color and tunable white light sheets.
Auragami Installation Roller	AG1-RLR-EVO	Specially designed foam roller assists in light sheet mounting. Safely mount light sheets without damaging terminals or LEDs.
Electronic Grade Silicone	SI-388CL-EVO	Acid-free electronic grade silicone may be used to supplement cut edges and connection terminals

SUGGESTED POWER OPTIONS (We stock a variety of the most popular power supplies (not shown below). Let us know if you have a preference.)

| ITEM	PART NUMBER	DESCRIPTION
24V, 5-IN-1 Dimmable LED Driver **(1 circuit of 96W)**	PS-5N1-1C2496-EVO	24VDC 5-IN-1 Dimmable LED Driver. Compatible with most control protocols: Triac / Phase, 0-10V, 1-10V, Potentiometer, and 10V PWM. 1 circuit of 96W.
24V, 5-IN-1 Dimmable LED Driver **(2 circuits of 96W each)**	PS-5N1-2C24192-EVO	24VDC 5-IN-1 Dimmable LED Driver. Compatible with most control protocols: Triac / Phase, 0-10V, 1-10V, Potentiometer, and 10V PWM. 2 circuits of 96W each.
24V, 5-IN-1 Dimmable LED Driver **(4 circuits of 96W each)**	PS-5N1-4C24384-EVO	24VDC 5-IN-1 Dimmable LED Driver. Compatible with most control protocols: Triac / Phase, 0-10V, 1-10V, Potentiometer, and 10V PWM. 4 circuits of 96W each.

SUGGESTED CONTROL OPTIONS

We stock and offer the most popular lighting control types and brands including, Leviton, LTECH, Sunricher, AmbienTech, Dali, DMX, and more. Please let your System Integration Specialist know if you have a control type preference or would like a suggestion. Auragami is compatible with all control types via associated control components.
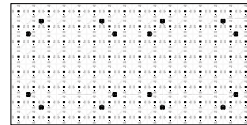
ALSO AVAILABLE FROM EVO-LITE
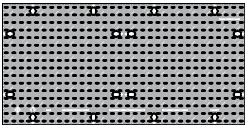
TUNABLE WHITE

Adjustable white from warm 1800K to cool 6500K
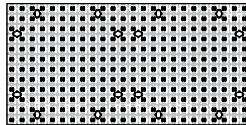
RGB + 5000K WHITE

Billions of colors + dedicated 5000K white diodes.

AURAGAMI BASIC

2700K, 3000K, 3500K, 4000K, 5000K, TW, RGBW

CUSTOMIZATION OPTIONS

All Auragami customizations maintain the UL Listing. Minimum order quantities apply.

- Voltage
- Wattage/efficiency
- Lumens/brightness
- Specific color temperatures
- IP Ratings
- Pre cut sheets with factory sealed IP Rating
- LED pitch and placement
- PCB material type, pre-cut sheets
- Pre-mounted to quick install substrates