

Solaria Module 270W/275W/280W

Frameless Crystalline Solar Panel

The Solaria solar panel is the first PV module designed for tracking applications, with form factor, mounting system, and installation processes optimized for performance, efficiency and reliability.

Quality & Safety

Solaria modules are certified to UL and IEC flat plate standards. Every Solaria module undergoes rigorous in-house testing that exceeds industry standards.

Standard, Proven & Reliable

All materials used in Solaria modules are proven, field-tested, industry standard components that have been used for over 25 years in outdoor applications. Solaria only uses crystalline silicon and UL-listed solar industry materials – along with strong, specially-designed tempered glass – to ensure performance and reliability.

Industry Leading Technology

Solaria's patented technology combines silicon solar cells with proprietary glass optics to reduce module costs without compromising performance.

Tracker Optimized

Solaria modules are specifically optimized for tracking systems, which yields additional cost savings in installation and balance of system costs, providing a low-cost, high-performance solution for developers of large-scale solar power plants.

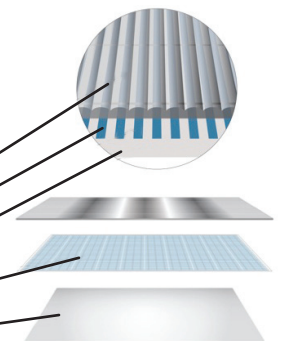


Solaria Materials Used

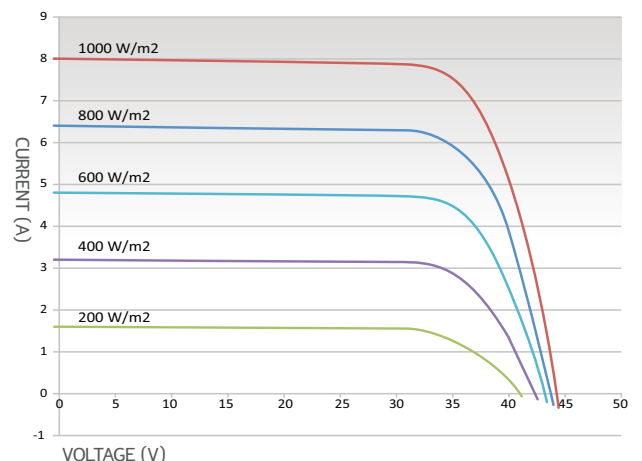
All materials used in Solaria modules are industry standard and have been used for over 25 years in outdoor applications.

Solaria modules only use:

- Industry standard glass
- Industry standard cells
- Industry standard EVA
- Industry standard ribbon
- Industry standard back-sheet



Electrical Data (200W/m² – 1000 W/m²)



Solaria Module 270W/275W/280W

Frameless Crystalline Solar Panel

ELECTRICAL DATA

Measured at standard test conditions (STC) Irradiance 1000W/m², Air Mass 1.5, Temperature 25°C.

Maximum power at STC	P _{max}	270W	275W	280W
Power tolerance		+3/-2%	+3/-2%	+3/-2%
Voltage at maximum power	V _{mp}	35.14V	35.57V	35.92V
Current at maximum power	I _{mp}	7.69A	7.73A	7.80A
Open-circuit voltage	V _{oc}	44.18V	44.39V	44.57V
Short-circuit current	I _{sc}	8.04A	8.15A	8.27A
Maximum system voltage	IEC, UL	1000, 600V	1000, 600V	1000, 600V
Series fuse rating		15A	15A	15A
Operating temperature		-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
NOCT		45 +/- 2 °C	45 +/- 2 °C	45 +/- 2 °C

MECHANICAL DATA

Cell type	Crystalline Silicon Cells
Module dimension	L: 1926+/-1.6 mm W: 1014+/-4 mm D: 8.6mm +/- .8mm
Weight	74 lbs (33 kg)
Junction box	IP65 rating
Junction box dimensions	L: 135.65 mm+/-0.30 W: 101.30 mm +/-0.30 D: 24.5 mm+/- 0.25
Bypass diodes	3
Cable length	848/1608 mm
Connector type	MC4 Compatible
Load	2400 Pascal

TEMPERATURE COEFFICIENTS

Short-circuit current	I _{sc}	+0.05 % / °C	+0.05 % / °C	+0.05 % / °C
Open-circuit voltage	V _{oc}	-0.32 % / °C	-0.32 % / °C	-0.32 % / °C
Power	P _{max}	-0.44 % / °C	-0.44 % / °C	-0.44 % / °C

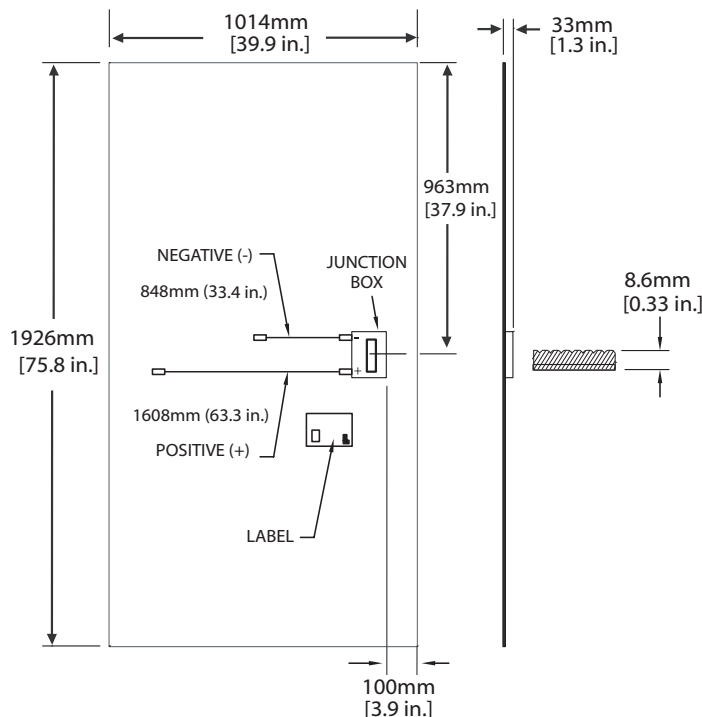
WARRANTIES

5 Year workmanship, 25 Year limited power warranty: 90% at 12 years, 80% at 25 years

CERTIFICATION

IEC61215/61730, CSA listed to UL-1703, Class C fire rating, Class A application rating

PHYSICAL DIMENSIONS



Solaria USA / 6200 Paseo Padre Pkwy / Fremont, CA 94555 USA / T: +1 510-270-2500 / F: +1 510-793-8388

Solaria Germany / Oranienburger Strasse 17 / 1. OG / 10178 Berlin Germany / P: +49 (30) 5210 70 81 0 / F: +49 (30) 5210 70 81 9

Solaria India / 202 SSH Pride, Plot 273, Road No. 78 / Jubilee Hills, Hyderabad, AP 500096, India / T: +91 40 2355-4787 / F: +91 40 2355-4883

Email: info@solaria.com / URL: www.solaria.com

Contact Solaria for tolerance specifications. Datasheet conforms to EN50380:2003 ©Solaria Corporation, Inc. All rights reserved. DSS0003 Rev 02 January 2012

Certification extends to product specifications within +/- 10% of indicated values under standard test conditions. Contents subject to change without notice.

Patents Pending. This product may be covered by one or more of the following US or international patents: U.S. Patent Nos: 8,049,098, 7,910,822 CN Patent No.: ZL200680032012.6 CN Design Nos: ZL200630014244.1, ZL200930003780.5, ZL200930003781.X, IN Design Nos.: 214443; 228818-228825; 228604; 228605; EU Design Nos.: 1156517-0000/1/2/3/4; 1160147-0001/2/3/4/5/6/7/8