



# 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.

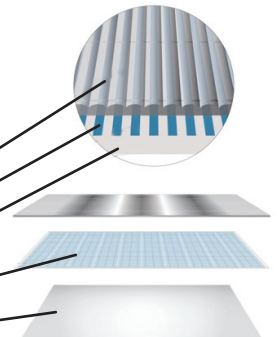


### Solaria Materials Used

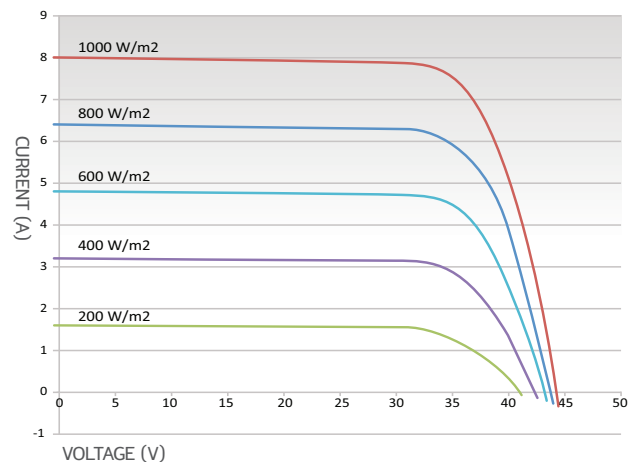
All materials used in Solaria modules are industry standard and have been used for over 25 years in outdoor applications.

Solaria modules only use:

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



### Electrical Data (200W/m<sup>2</sup> – 1000 W/m<sup>2</sup>)



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### ELECTRICAL DATA

Measured at standard test conditions (STC) Irradiance 1000W/m<sup>2</sup>, Air Mass 1.5, Temperature 25°C.

Maximum power at STC	Pmax	270W	275W	280W
Power tolerance		+3/-2%	+3/-2%	+3/-2%
Voltage at maximum power	Vmp	35.14V	35.57V	35.92V
Current at maximum power	Imp	7.69A	7.73A	7.80A
Open-circuit voltage	Voc	44.18V	44.39V	44.57V
Short-circuit current	Isc	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 +/- 0.8mm
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
Load	2400 Pascal

### TEMPERATURE COEFFICIENTS

Short-circuit current	Isc	+0.05 % / °C	+0.05 % / °C	+0.05 % / °C
Open-circuit voltage	Voc	-0.32 % / °C	-0.32 % / °C	-0.32 % / °C
Power	Pmax	-0.44 % / °C	-0.44 % / °C	-0.44 % / °C

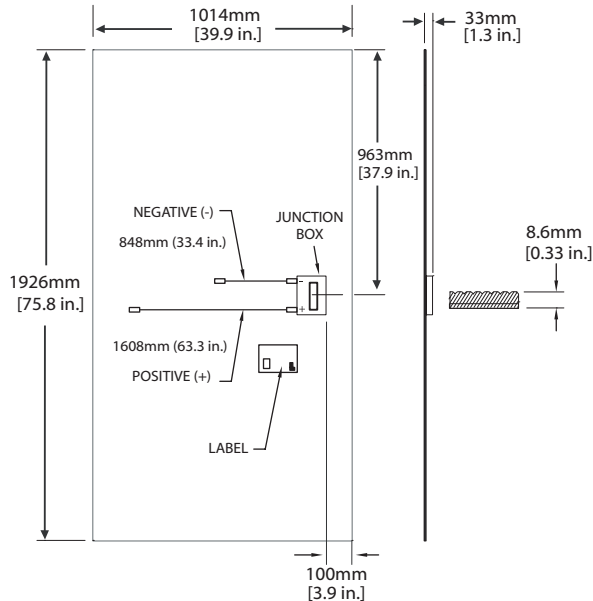
### WARRANTIES

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



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Contact Solaria for tolerance specifications. Datasheet conforms to EN50380:2003

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Certification extends to product specifications within +/- 10% of indicated values under standard test condition. 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