



## Solaria 230W/220W/210W

### Module Series: Mono-crystalline Solar Panels

The Solaria solar panel is the industry's first PV module optimized for tracking applications. Innovative optics provides performance comparable to other monocrystalline PV modules while using half the silicon cells. Available in 230 W, 220 W or 210 W modules.

#### Quality & Safety

Solaria modules are certified according to UL and IEC flat plate standards by CSA and TÜV Rheinland. Every Solaria module undergoes rigorous in-house testing that exceeds industry standard requirements.

#### Standard, Proven & Reliable

Reliable mono-crystalline silicon, a strong, specially designed tempered glass, and a sturdy anodized aluminum frame, along with other UL listed solar industry materials ensures that the Solaria module is exceptionally reliable and resilient.

#### High-efficiency Module at Lower Cost Point

Patented cell multiplication technology pioneered by Solaria reduces silicon cell material by half – enabling lower cost at equivalent energy output in tracking applications.

#### Value Engineering

Solaria modules have been specifically designed for tracking applications, resulting in improved performance, greater useful strength, and reduced costs. Performance improvements occur from matching module size and electrical characteristics to the unique demands of trackers. High strength glass and other module components mean less steel and aluminum is needed for the support structures. Efficient design and engineering specific to trackers result in labor cost savings. Add this up, and Solaria modules – which already use silicon cells more efficiently – provide all the reliability, performance and predictability of silicon modules at an attractive price consistently below typical silicon modules.

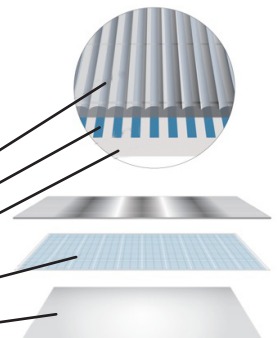


#### Solaria Materials Used

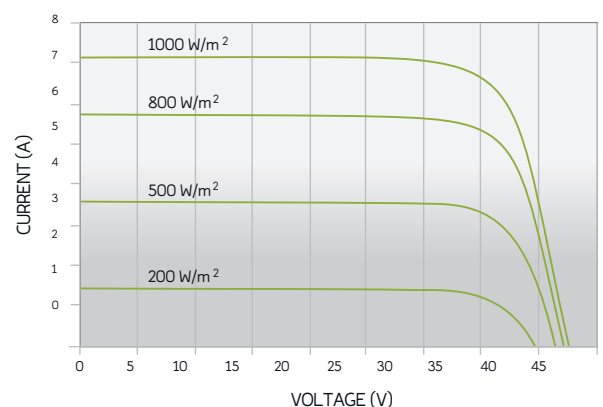
All materials used in Solaria modules are industry standard and have been used for over 25 years in outdoor applications.

Solaria modules only use:

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



#### Electrical Data (200 W/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.

All other electrical specifications are +/- 10% of indicated value under STC.

Maximum power at STC	Pmax	210	220	230	W
Power tolerance		+5/-2%	+5/-2%	+5/-2%	%
Voltage at maximum power	Vmp	33.81	34.03	34.20	V
Current at maximum power	Imp	6.21	6.46	6.71	A
Open-circuit voltage	Voc	41.59	42.30	43.02	V
Short-circuit current	Isc	7.13	7.19	7.24	A
Maximum system voltage	IEC, UL	1000, 600	1000, 600	1000, 600	V
Series fuse rating		15	15	15	A
Operating temperature		-40 to +85	-40 to +85	-40 to +85	°C
NOCT		45 +/- 2	45 +/- 2	45 +/- 2	°C

### MECHANICAL DATA

Cell type	Mono-Crystalline Silicon Cells
Module dimension	1617 x 1023 x 45 mm (63.7 x 40.3 x 1.8 inches)
Weight	31.8 kg (70.0 lbs)
Junction box	IP65 rating
Junction box dimensions	150 x 133 x 25 mm (5.9 x 5.2 x 1.0 inches)
Bypass diodes	5
Cable length	1000 mm (39.4 inches)
Connector type	MC4
Frame	Anodized aluminum alloy
Maximum load	7200 Pascal

### TEMPERATURE COEFFICIENTS

Open-circuit voltage	Voc	-0.39 % / °C
Power	Pmax	-0.50 % / °C
Short-circuit current	Isc	0.045 % / °C

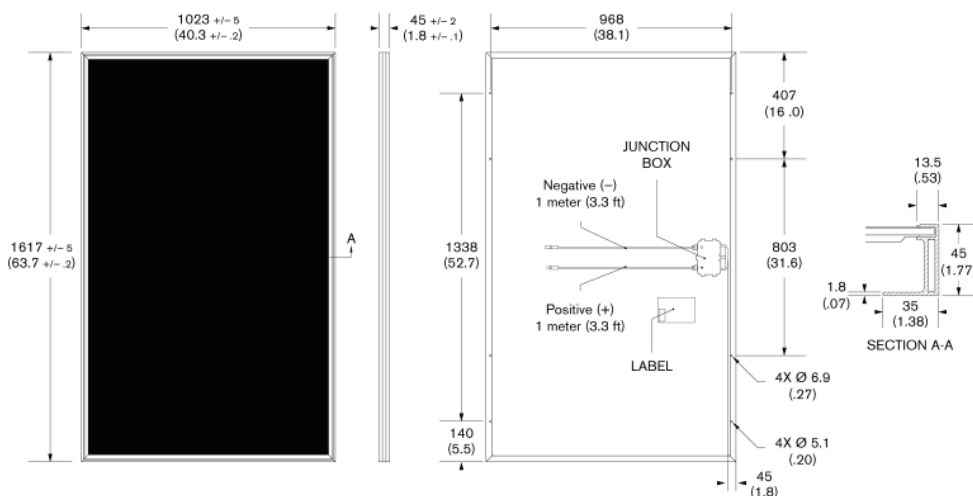
### WARRANTIES

5 Year workmanship, 25 Year limited power warranty.

### 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 © Solaria Corporation, Inc. All rights reserve

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