About Solaria

Established in 2000, The Solaria Corporation has created one of the industry’s most respected IP portfolios, with over 100 issued and pending patents encompassing materials, processes, applications, products, manufacturing automation and equipment. Headquartered in Fremont, California, Solaria has developed a technology platform that unlocks the potential of solar energy allowing it to be ubiquitous and universally accessed.

Achieving 20% efficiency, Solaria PowerXT solar panels are one of the highest power panels in the residential and commercial solar market. Compared to conventional panels, Solaria PowerXT panels have fewer gaps between the solar cells; this leads to higher power and superior aesthetics. Solaria PowerXT Pure Black™ panels are manufactured with black backsheets and frames, enhancing a home or building’s architectural beauty.

Developed in California, Solaria’s patented cell cutting creates a highly reliable PowerXT cell where busbars and ribbon interconnections, common failure points, are eliminated. Solaria’s patented panel assembly then packages the cells into the PowerXT solar panel, reducing inactive space between the cells. This process leads to an exceptionally cost effective and efficient solar panel.

Higher Efficiency, Higher Power
Solaria PowerXT panels achieve up to 20.5% efficiency; conventional panels achieve 15% – 17% efficiency. Solaria PowerXT panels are one of the highest power panels available.

Lower System Costs
Solaria PowerXT panels produce more power per square meter area. This reduces installation costs due to fewer balance of system components.

Improved Shading Tolerance
Sub-strings are interconnected in parallel, within each of the four panel quadrants, which dramatically lowers the shading losses and boosts energy yield.

Improved Aesthetics
Compared to conventional panels, Solaria PowerXT panels have a more uniform appearance and superior aesthetics.

Durability and Reliability
Solder-less cell interconnections are highly reliable and designed to far exceed the industry leading 25 year warranty.

PID Resistant
Solaria PowerXT panels are PID resistant. This insures stable and predictable energy production over time.

About Solaria
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## Performance at STC (1000W/m², 25°C, AM 1.5)

<table>
<thead>
<tr>
<th>Solaria PowerXT</th>
<th>365R-PD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Power (Pmax) [W]</td>
<td>365</td>
</tr>
<tr>
<td>Efficiency [%]</td>
<td>20.2</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc)* [V]</td>
<td>48.0</td>
</tr>
<tr>
<td>Short Circuit Current (Isoc)* [A]</td>
<td>9.58</td>
</tr>
<tr>
<td>Max Power Voltage (Vmp) [V]</td>
<td>39.9</td>
</tr>
<tr>
<td>Max Power Current (Imp) [A]</td>
<td>9.16</td>
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<tr>
<td>Power Tolerance [%]</td>
<td>-0/+3</td>
</tr>
<tr>
<td>* Voc and Isc tolerance +/-5%</td>
<td></td>
</tr>
</tbody>
</table>

## Performance at NOCT (800W/m², 20°C Amb, Wind 1 m/s, AM 1.5)

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Max Power (Pmax) [W]</td>
<td>269</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc) [V]</td>
<td>45.1</td>
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<tr>
<td>Short Circuit Current (Isoc) [A]</td>
<td>7.73</td>
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<tr>
<td>Max Power Voltage (Vmp) [V]</td>
<td>36.7</td>
</tr>
<tr>
<td>Max Power Current (Imp) [A]</td>
<td>7.32</td>
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</table>

## Temperature Characteristics

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NOCT [°C]</td>
<td>45 +/-2</td>
</tr>
<tr>
<td>Temp. Coeff. of Pmax [% / °C]</td>
<td>-0.39</td>
</tr>
<tr>
<td>Temp. Coeff. of Voc [% / °C]</td>
<td>-0.29</td>
</tr>
<tr>
<td>Temp. Coeff. of Isc [% / °C]</td>
<td>0.04</td>
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</tbody>
</table>

## Design Parameters

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Operating temperature [°C]</td>
<td>-40 to +85</td>
</tr>
<tr>
<td>Max System Voltage [V]</td>
<td>1000</td>
</tr>
<tr>
<td>Max Fuse Rating [A]</td>
<td>15</td>
</tr>
<tr>
<td>Bypass Diodes [#]</td>
<td>4</td>
</tr>
</tbody>
</table>

## Mechanical Characteristics

- **Cell Type**: Monocrystalline Silicon
- **Dimensions (L x W x H)**: 1621mm x 1116mm x 40mm
- **Weight**: 21 kg / 46 lbs
- **Glass Type / Thickness**: AR Coated, Tempered / 3.2mm
- **Frame Type**: Black Anodised Aluminum
- **Cable Type / Length**: 12 AWG PV Wire (UL) / 1000mm
- **Connector Type**: Genuine MC4 (Male: PV-KST4, Female: PV-KBT4)
- **Junction Box**: IP67 / 4 diodes
- **Front Test Load**: 5400 Pa / 113 psf*
- **Rear Test Load**: 3600 Pa / 75 psf*

* Refer to Solaria Installation Manual for details. 3600 Pa uplift is for bolted installation only.

## Certifications / Warranty

- **Certifications**: IEC61215/61730 (ed. 2016), UL61730/CAN-CSA61730
- **Fire Class (UL 790)**: C
- **Power, Parts & Labor Warranty**: 25 years*

* Warranty details at www.solaria.com/australia

## Packaging

- **Stacking Method**: Horizontal / Palletised
- **Panels / Pallet**: 25
- **Pallet Dimensions**: 1668 x 1150 x 1230 mm
- **Pallet Weight**: 590 kg / 1300 lbs
- **Pallets / 40-ft Container**: 28
- **Panels / 40-ft Container**: 700

## IV Curves vs. Irradiance (370W Panel)

![IV Curves vs. Irradiance (370W Panel)](image)

## Comprehensive 25-Year Warranty

- **25-year Power, Parts and Labor from Solaria**
- **Typical Tier 1 industry warranty**
  - 98%
  - 90%
  - 80%
  - 81%
  - 86%
  - 83%
  - 80%
  - 75%
  - 70%
  - 65%
  - 60%
  - 55%
  - 50%
  - 45%
  - 40%
  - 35%
  - 30%
  - 25%
  - 20%
  - 15%
  - 10%
  - 5%
  - 0%

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Product specifications are subject to change without notice.

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