



PowerXT[®]-370R-PD

Achieving up to 20.5% efficiency, TSC PowerXT solar panels are one of the highest power panels in the residential and commercial market. Compared to traditional panels, PowerXT panels have fewer gaps between the solar cells; this leads to higher power and an attractive design. PowerXT pure black residential panels are manufactured with a black backsheet and frames, enhancing a home or business' architectural beauty.

Developed in America, TSC's patented cell cutting and panel assembly takes processed solar wafers and turns them into PowerXT solar panels. The process starts by creating a highly reliable PowerXT cell where busbars and ribbon interconnections are eliminated. TSC then packages the cells into the PowerXT solar panel, reducing inactive space between the cells. This process leads to an exceptionally attractive and efficient solar panel.

Higher Efficiency, Higher Power

TSC PowerXT panels achieve up to 20.5% efficiency; traditional panels achieve 15% – 17% efficiency. TSC PowerXT panels are one of the highest power panels available.

Lower System Costs

PowerXT panels produce more power per square meter area. This reduces installation costs due to fewer balance of system components such as racking and cables.

Improved Shading Tolerance

Solar cell sub-strings are interconnected in parallel, within each of the four module quadrants, which dramatically lowers the shading losses and boosts energy yield.

Improved Aesthetics

Compared to traditional panels, PowerXT panels have a more uniform appearance and superior aesthetics, with a pure black photovoltaic panel.

Durability and Reliability

Solder-less cell interconnections are highly reliable and designed to exceed the industry leading product and power warranty of 25 years.



About TSC

TSC is the European division of an U.S. Silicon Valley company that has been operating in the photovoltaic (PV) industry for 20 years and holds over 350 issued and pending patents in PV solar cell and module technology. TSC and its parent company are leading the industry in high performance, Pure Black[™] solar panels for residential and commercial applications.



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

| TSC PowerXT- | | 365R-PD | 370R-PD |
|--|-----|---------|---------|
| Max Power (P _{max}) | [W] | 365 | 370 |
| Efficiency | [%] | 20.2 | 20.5 |
| Open Circuit Voltage (V _{oc}) | [V] | 48.0 | 48.3 |
| Short Circuit Current (I _{sc}) | [A] | 9.58 | 9.60 |
| Max Power Voltage (V _{mp}) | [V] | 39.9 | 40.2 |
| Max Power Current (I _{mp}) | [A] | 9.16 | 9.20 |
| Power Tolerance | [%] | -0/+3 | -0/+3 |

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

| | | | |
|--|-----|------|------|
| Max Power (P _{max}) | [W] | 269 | 272 |
| Open Circuit Voltage (V _{oc}) | [V] | 45.1 | 45.5 |
| Short Circuit Current (I _{sc}) | [A] | 7.73 | 7.74 |
| Max Power Voltage (V _{mp}) | [V] | 36.7 | 37.0 |
| Max Power Current (I _{mp}) | [A] | 7.32 | 7.35 |

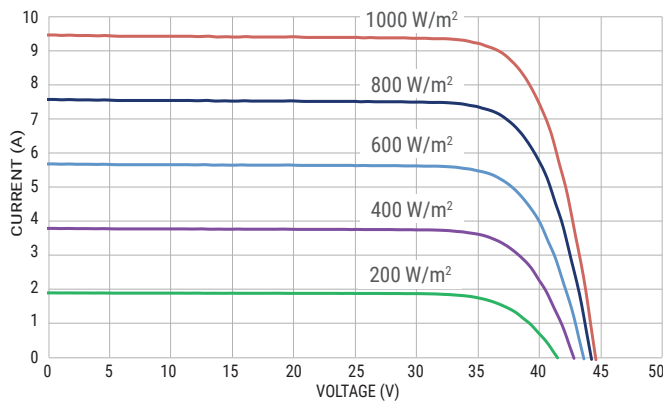
Temperature Characteristics

| | | |
|----------------------------------|----------|---------|
| NOCT | [°C] | 45 +/-2 |
| Temp. Coeff. of P _{max} | [% / °C] | -0.39 |
| Temp. Coeff. of V _{oc} | [% / °C] | -0.29 |
| Temp. Coeff. of I _{sc} | [% / °C] | 0.04 |

Design Parameters

| | | |
|-----------------------|------|------------|
| Operating temperature | [°C] | -40 to +85 |
| Max System Voltage | [V] | 1000 |
| Max Fuse Rating | [A] | 15 |
| Reverse Diodes | [#] | 4 |

IV Curves vs. Irradiance



Mechanical Characteristics

| | |
|------------------------|-----------------------------|
| Cell Type | Monocrystalline Silicon |
| Dimensions (L x W x H) | 1621 mm x 1116 mm x 40 mm |
| Weight | 21 kg |
| Glass Type / Thickness | AR Coated, Tempered / 3.2mm |
| Frame Type | Black Anodized Aluminum |
| Cable Type / Length | PV Wire / 1000mm |
| Connector Type | MC4 |
| Junction Box | IP67 / 4 diodes |
| Front Load | 5400 Pa* |
| Rear Load | 2400 Pa* |

* Refer to Installation Manual for details

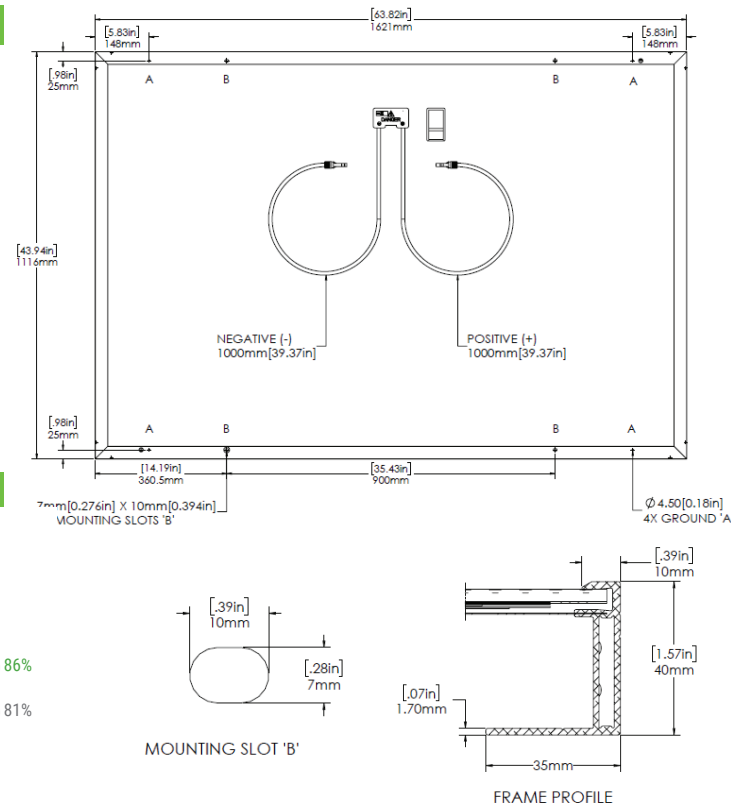
Certifications / Warranty

| | |
|-------------------------------|--|
| Certifications | UL 1703, CAN/CSA-C22.2 IEC 61215, IEC 61730 |
| Fire Type, UL 1703 (US) | Type 1 |
| Fire Class, UIA 9174 (Italy) | Class 1 |
| Power, Parts & Labor Warranty | 25 years* |

* Warranty details at www.solaria.com

Packaging

| | |
|---------------------------|--------------------------|
| Stacking Method | Horizontal / Palletized |
| Panels / Pallet | 25 |
| Pallet Dimensions | 1668mm x 1150mm x 1230mm |
| Pallet Weight | 590 kg |
| Pallets / 40-ft Container | 28 |
| Panels / 40-ft Container | 700 |



Comprehensive 25-Year Warranty

