SOLARIA®

Solaria PowerXT® | DC Panel



Solaria PowerXT®-365R-PD

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 backsheet and frames, enhancing a home or building's architectural beauty.

Developed in California, Solaria'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. Solaria 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.



About Solaria

Established in 2000, The Solaria Corporation has created one of the industry's most respected IP portfolios, with over 250 issued and pending patents encompassing materials, processes, applications, products, manufacturing automation and equipment. Headquartered in Oakland, CA, Solaria has developed a technology platform that unlocks the potential of solar energy. Country of Manufacture: Korea

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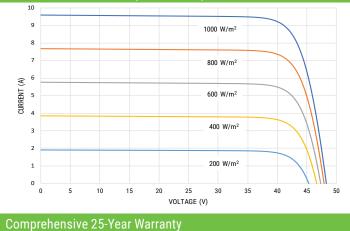
Performance at STC (1000W/m², 25° C, AM 1.5)		
Performance at STC (1000W Solaria PowerXT- Max Power (Pmax) Efficiency Open Circuit Voltage (Voc)* Short Circuit Current (Isc)* Max Power Voltage (Vmp) Max Power Current (Imp) Power Tolerance	[W] [%] [V] [A] [V] [A]	365R-PD 365 20.2 48.0 9.58 39.9 9.16
* Voc and Isc tolerance +/-5%	[%]	-0/+3
Performance at NOCT (800W/	m², 20°C Amb, Wir	nd 1 m/s, AM 1.5)
Max Power (Pmax) Open Circuit Voltage (Voc) Short Circuit Current (Isc) Max Power Voltage (Vmp) Max Power Current (Imp)	[W] [V] [A] [V] [A]	269 45.1 7.73 36.7 7.32
Temperature Characteristics		
NOCT Temp. Coeff. of P _{max} Temp. Coeff. of V _{oc} Temp. Coeff. of Isc	[°C] [% / °C] [% / °C] [% / °C]	45 +/-2 -0.39 -0.29 0.04
Design Parameters		
Operating temperature Max System Voltage Max Fuse Rating Bypass Diodes	[°C] [V] [A] [#]	-40 to +85 1000 15 4

IV Curves vs. Irradiance (370W Panel)

100% 98%

90%

80%



10

Years

Solaria PowerXT®-365R-PD

00W/m², 25° C, AM 1.5)	Mechanical Characteristics
365R-PD	Cell Type Monocrystalline Silicon
[W] 365	Dimensions (L x W x H) 1621mm x 1116mm x 40mm
[%] 20.2	Weight 21 kg / 46 lbs
* [V] 48.0	Glass Type / Thickness AR Coated, Tempered / 3.2mm
[A] 9.58	Frame Type Black Anodised Aluminum
[V] 39.9	Cable Type / Length 12 AWG PV Wire (UL) / 1000mm
[A] 9.16	Connector Type Genuine MC4
[%] -0/+3	(Male: PV-KST4, Female: PV-KBT4)
	Junction Box IP67 / 4 diodes
)W/m², 20°C Amb, Wind 1 m/s, AM 1.5)	Front Test Load 5400 Pa / 113 psf*
· · · · · · · · · · · · · · · · · · ·	Rear Test Load 3600 Pa / 75 psf*
[W] 269	* Refer to Solaria Installation Manual for details. 3600 Pa uplift is for bolted installation only.
[V] 45.1	Certifications / Warranty
[A] 7.73	Certifications IEC61215/61730 (ed. 2016)
[V] 36.7	UL61730/CAN-CSA61730
[A] 7.32	Fire Class (UL 790) C
tics	Power, Parts & Labor Warranty 25 years*
[°C] 45 +/-2	* Warranty details at www.solaria.com/australia
[% / °C] -0.39	
[% / °C] -0.29	Packaging
[% / °C] 0.04	Stacking Method Horizontal / Palletised
[/0 / 0] 0.04	Panels / Pallet 25
	Pallet Dimensions 1668 x 1150 x 1230 mm
[°C] -40 to +85	Pallet Weight 590 kg / 1300 lbs
[V] 1000	Pallets / 40-ft Container 28
[A] 15	Panels / 40-ft Container 700
[#] 4	
	[63,82in]
(370W Panel)	
	1.98in] A B B A
1000 W/m ²	
800 W/m ²	
600 W/m ²	[43,94n] 1118mm
400 W/m ²	NEGATIVE (-) POSITIVE (+)
	1000mm[39.37in] 1000mm[39.37in]
200 W/m ²	
	[sein] A B B A
20 25 30 35 40 45 50 VOLTAGE (V)	(14.19in) [35,43in]
	7mm[0.276in] X 10mm[0.394in]
Warranty	4X MOUNTING SLOTS 'B' 4X GROUNE
25-year Power, Parts and Labor from Solaria	
Typical Tier 1 industry warranty	10mm
Ŧ	
- 86%	L_28in] Tmm [_07in] L_20mm
- 86% - 81%	1.70mm
Nork	MOUNTING SLOT 'B'

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FRAME PROFILE