SOLARIA

Solaria PowerXT™ | Residential

Solaria PowerXT™-330R-PX | Solaria PowerXT™-325R-BX

Achieving over 19% efficiency, Solaria PowerXT solar modules are one of the highest power modules in the residential solar market. Compared to conventional modules, Solaria PowerXT modules have fewer gaps between the solar cells; this leads to higher power and superior aesthetics. Solaria PowerXT residential modules are manufactured with black backsheet and frames, giving them a striking appearance.

Developed in California, Solaria's patented cell cutting and module assembly form high-density sub-strings, which are packed more efficiently and reduce inactive space between cells. By utilizing a ribbon-less interconnection process, cells are cut and overlaid without soldering, which creates highly reliable sub-string assemblies in a cost effective manner.

Higher Efficiency, Higher Power

Solaria PowerXT modules achieve over 19% efficiency; conventional modules achieve 15% – 17% efficiency. Solaria PowerXT modules are one of the highest power modules available.

Lower System Costs

Solaria PowerXT modules 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 module quadrants, which dramatically lowers the shading losses and boosts energy yield.

Improved Aesthetics

Compared to conventional modules, Solaria PowerXT modules 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 100 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.

DNV·GL

TÜVRheinland®
Precisely Right.

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Product specifications are subject to change without notice.

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Solaria PowerXT™-330R-PX
Solaria PowerXT™-325R-BX

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

Solaria PowerXT-		320R-BX	325R-BX	325R-PX	330R-PX
Max Power (P_{max})	[W]	320	325	325	330
Efficiency	[%]	18.7	19.0	19.0	19.3
Open Circuit Voltage (V_{oc})	[V]	44.3	44.5	44.3	44.5
Short Circuit Current (I_{sc})	[A]	9.36	9.40	9.46	9.49
Max Power Voltage (V_{mp})	[V]	36.5	36.7	36.4	36.6
Max Power Current (I_{mp})	[A]	8.77	8.86	8.93	9.02
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3	-0/+3

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

Max Power (Pmax)	[W]	235	239	239	243
Open Circuit Voltage (V_{oc})	[V]	40.7	41.0	40.7	41.0
Short Circuit Current (I_{sc})	[A]	7.54	7.58	7.63	7.66
Max Power Voltage (V_{mp})	[V]	33.2	33.4	33.1	33.3
Max Power Current (I_{mp})	[A]	7.08	7.16	7.23	7.30

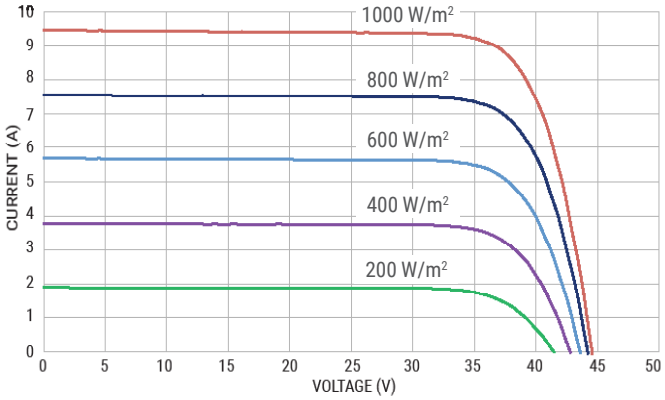
Temperature Characteristics

NOCT	[°C]	45 +/-2
Temp. Coeff. of P_{max}	[% / °C]	-0.40
Temp. Coeff. of V_{oc}	[% / °C]	-0.32
Temp. Coeff. of Isc	[% / °C]	0.05

Design Parameters

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

IV Curves vs. Irradiance (330W Module)



Authorized Dealer

Mechanical Characteristics

Cell Type	Monocrystalline Silicon
Dimensions (L x W x H)	1621mm x 1056mm x 40mm
Weight	20 kg / 44 lbs
Glass Type / Thickness	AR Coated, Tempered / 3.2mm
Frame Type	Anodized Aluminum
Cable Type / Length	12 AWG PV Wire (UL) / 1000mm
Connector Type	Amphenol H4 (MC4 compatible)
Junction Box	IP67 / 4 diodes
Front Load (UL 1703)	5400 Pa / 113 psf
Rear Load (UL 1703)	3600 Pa / 75 psf

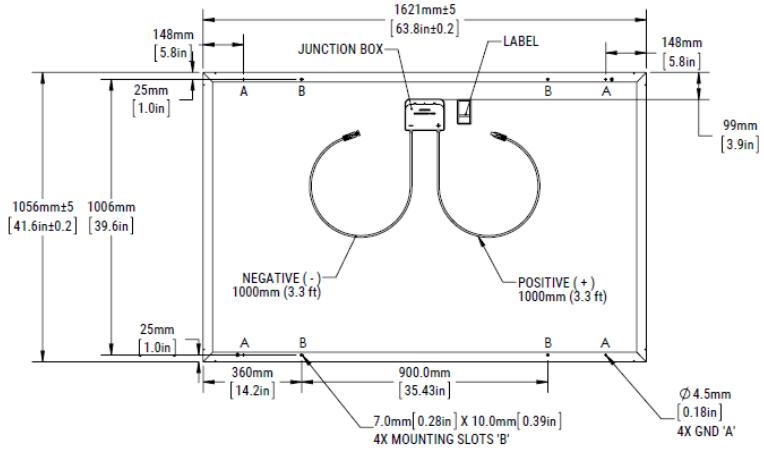
Certifications / Warranty

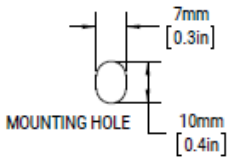
Certifications	UL 1703/IEC 61215/IEC 61730/CEC
Fire Type (UL 1703)	1
Power & Product Warranty	25 years*

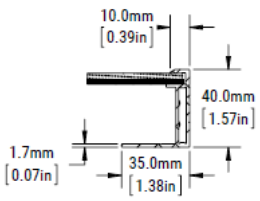
* Warranty details at www.solaria.com

Packaging

Stacking Method	Horizontal / Palletized
Pcs / Pallet	25
Pallet Dims	1668 x 1120 x 1254 mm
Pallet Weight	560 kg / 1235 lbs
Pallets / 40-ft Container	28
Pcs / 40-ft Container	700







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