TSC[®]

TSC PowerXT[®] | DC Panel



PowerXT[®]-400R-PM

Achieving over 20% 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 and are manufactured with black backsheet and frames, giving them a striking appearance and higher efficiency.

Developed in America, TSC's patented cell cutting creates a highly reliable PowerXT cell where busbars and ribbon interconnections, common failure points, are eliminated. TSC'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 attractive and efficient solar panel.

Higher Efficiency, Higher Power

TSC PowerXT panels achieve over 20% 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.

PID Resistant

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

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 250 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.



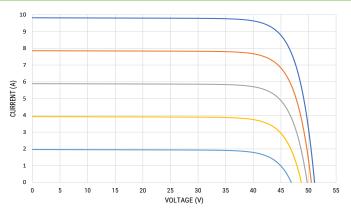


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Solaria PowerXT-	0W/m ² , 25° C, AM 1.5) 400R-PM		
Max Power (Pmax)	[W]	400	
Efficiency	[%]	20.2	
Open Circuit Voltage (Voc)	[V]	51.1	
Short Circuit Current (Isc)	[A]	9.82	
Max Power Voltage (Vmp)	[V]	42.4	
Max Power Current (Imp)	[A]	9.41	
Power Tolerance	[%]	-0/+3	
Performance at NOCT (800	W/m², 20°C An	nb, Wind 1 m/s, AM 1.5)	
Max Power (Pmax)	[W]	295	
Open Circuit Voltage (Voc)	[V]	48.1	
Short Circuit Current (Isc)	[A]	7.92	
Max Power Voltage (Vmp)	[V]	40.0	
Max Power Current (Imp)	[A]	7.59	
Temperature Characteris	tics		
NOCT	[°C]	45 +/-2	
Temp. Coeff. of Pmax	[% / °C]	-0.39	
Temp. Coeff. of Voc	[% / °C]	-0.29	
Temp. Coeff. of Isc	[%/°C]	0.04	
Design Parameters			
Operating temperature	[°C]	-40 to +85	

Operating temperature	[°C]	-40 to +85
Max System Voltage	[V]	1000
Max Fuse Rating	[A]	20
Bypass Diodes	[#]	4

IV Curves vs. Irradiance (400W Panel)



Comprehensive 25-Year Warranty



PowerXT®-400R-PM

Mechanical Characteristics	
Cell Type	Monocrystalline Silicon
Dimensions (L x W x H)	64.72" x 47.4" x 1.57"
	1644mm x 1204mm x 40mm
Weight	21 kg
Glass Type / Thickness	AR Coated, Tempered / 2.84mm
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	3600 Pa*
*Refer to Installation manual for details	

Certifications / Test / Warranty

Certifications	UL 61730, CAN/CSA-C22.2
	IEC 61215, IEC 61730
Fire Type, UL 1703 (US)	Туре 1
Fire Class, UIA 9174 (Italy)	Class 1
PID Test	IEC 62804
Salt Spray Test	EN ISO 9227
Power, Parts & Labor Warranty	25 years*
* Warranty details at www.solaria.com/europe	

Packaging

Stacking Method Panels/ Pallet Pallet Dims (L x W x H) Horizontal / Palletized 25 66.57" x 48.7" x 48.4" 1720mm x 1260mm x 1235mm 575 kg 18 450

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Pallet Weight Pallets / 40-ft Container Panels / 40-ft Container

[64.7in] 1644mm 5.8in [1.0in] [5.8in] **P** Η [47.4in] 1204mm NEGATIVE (-) 1000mm[39.4in] POSITIVE (+) 1000mm[39.4in] [35.9in] 911mm [1.0in] [14.4in] 367mm 7mm[0.276in] X 10mm[0.394in 4X MOUNTING SLOTS 'B Ø4.5mm[0.18in] 4X GROUNDING HOLES 'A [.43in] [1.57in] [.07in] 1.70mm [1.38in] 35mm

TSC B.V. Barbara Strozzilaan 201 1083HN Amsterdam Netherlands www.solaria.com/europe Product specifications are subject to change without notice.