

Solaria PowerX-400R Advantage Series

Achieving over 20.5% efficiency, Solaria PowerX Advantage solar panels feature Solaria's core cell cutting technology, offering higher-power and attractive black-on-black aesthetics compared to conventional solar panels. Solaria has been the market leader in cut-cell technologies for over a decade. With a comprehensive 25-year warranty, PowerX delivers the latest in power and reliability for homeowners.



High Efficiency, High Power

At 400 watts and 20.5% efficiency, Solaria PowerX solar panels are one of the highest power residential panels available.



High Quality and Reliability

State-of-the art cell cutting technology and advanced panel construction ensure that PowerX panels are highly reliable and designed to far exceed the industry-leading 25-year warranty.



All Black Aesthetics

Compared to conventional panels, Solaria PowerX panels have a more uniform all-black appearance.



Best System Value

Solaria PowerX solar 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, which dramatically lowers the shading losses and boosts energy yield.



Low Light Performance

PowerX maintains high efficiency at low irradiance further ensuring maximum energy yield.



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 in PV solar cell and module technology. Headquartered in California, Solaria has developed a technology platform that unlocks the potential of solar energy.

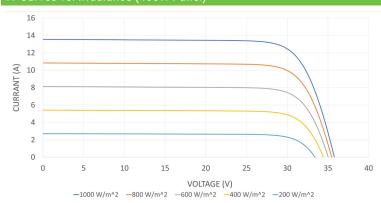


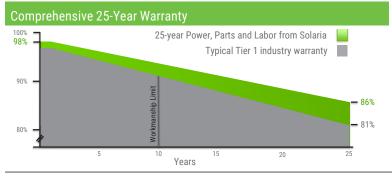
Performance at STC (1000W/m², 25° C, AM 1.5)				
Solaria PowerX-		390R	395R	400R
Max Power (Pmax)	[W]	390	395	400
Efficiency	[%]	20.0	20.2	20.5
Open Circuit Voltage (Voc)	[V]	36.9	37.1	37.3
Short Circuit Current (Isc)	[A]	13.52	13.60	13.68
Max Power Voltage (Vmp)	[V]	30.6	30.8	31.0
Max Power Current (Imp)	[A]	12.73	12.82	12.9
Power Tolerance	[%]	-0/+3	-0/+3	-0/+3
Performance at NOCT (800W/n	n², 20°C Am	b, Wind 1 m	/s, AM 1.5)	
Max Power (Pmax)	[W]	290	293	297
Open Circuit Voltage (Voc)	[V]	34.3	34.5	34.7
Short Circuit Current (Isc)	[A]	11.01	11.10	11.13
Max Power Voltage (Vmp)	[V]	28.50	28.60	28.76
Max Power Current (Imp)	[A]	10.20	10.26	10.32
Temperature Characteristics				

NOCT	[°C]	45 +/-2
Temp. Coeff. of Pmax	[% / °C]	-0.36
Temp. Coeff. of Voc	[% / °C]	-0.28
Temp. Coeff. of Isc	[% / °C]	0.048

Design ParametersOperating temperature[°C]-40 to +85Max System Voltage[V]1000Max Fuse Rating[A]25Bypass Diodes[#]3

IV Curves vs. Irradiance (400W Panel)





Mechanical Characteristics

C	Cell Type	Monocrystalline Silicon
D	imensions (L x W x H)	67.8" x 44.7" x 1.4"
		1723mm x 1134mm x 35mm
٧	Veight	22.1 kg / 48.7 lbs
G	Blass Type / Thickness	AR Coated, Tempered / 3.2mm
F	rame Type	Black Anodized Aluminum
C	Cable Type / Length	12 AWG PV Wire (UL) /1100mm
C	Connector Type	Staubli MC4
J	unction Box	IP68 / 3 diodes
F	ront Load	5400 Pa / 113 psf*
R	Rear Load	2400 Pa / 50 psf*
* [Pofer to Coloria Installation Manual for	details

Refer to Solaria Installation Manual for details

Certifications / Warranty

Certifications	UL 61730 / IEC 61215 / IEC 61730
Fire Type (UL 1703)	2
Power, Parts & Labor Warranty	25 years*

^{*} Warranty details at www.solaria.com

Packaging

Stacking Method	Vertical / Palletized
Panels/ Pallet	31
Pallet Dims (L x W x H)	69.3" x 44.3" x 49.3"
	1760mm x 1125mm x 1253mm

