

400–420 W Residential A-Series Panels

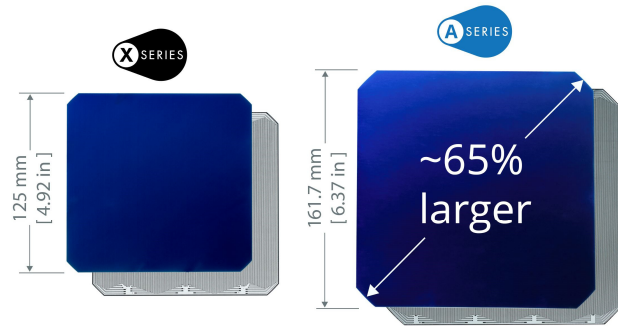
SunPower® Maxeon® Technology

SunPower® Maxeon® cell-based panels maximize energy production and savings by combining industry-leading power, efficiency, and durability with the best power, product, and service warranty in the industry.^{1,2}

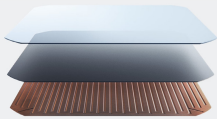


Highest Power Density Available

SunPower's new Maxeon® Gen 5 cell is 65% larger than prior generations, delivering the most powerful cell and highest efficiency panel in commercial solar. The result is more power per square meter than any commercially available solar.¹



SUNPOWER MAXEON SOLAR CELL TECHNOLOGY



Fundamentally Different. And Better.

- Most efficient cell in commercial solar²
- Delivers unmatched reliability³
- Patented solid metal foundation prevents breakage and corrosion

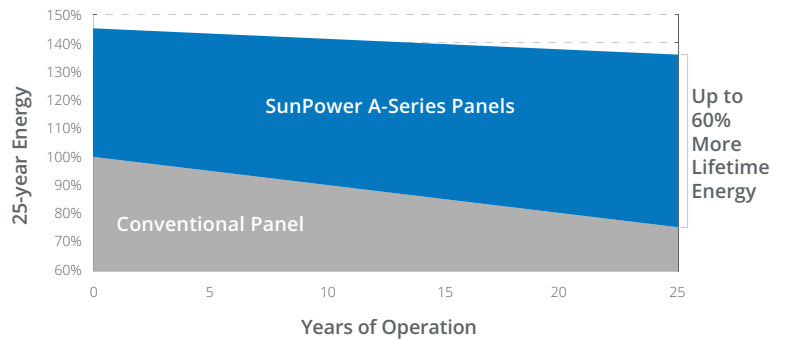
As sustainable as the energy it produces.

- Achieved the #1 ranking on the Silicon Valley Toxics Coalition's Solar Scorecard for 3 years running
- SunPower modules can contribute to your business's LEED certification⁴



Maximum Lifetime Energy and Savings

Designed to deliver up to 60% more energy from the same space over the first 25 years in real-world conditions like partial shade and high temperatures.¹



Best Reliability, Best Warranty

SunPower technology is proven to last and we stand behind our panels with the industry's best 25-year Combined Power, Product and Service Warranty.



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Electrical Data			
	SPR-A420	SPR-A410	SPR-A400
Nominal Power (P _{nom}) ⁵	420 W	410 W	400 W
Power Tolerance	+5/0%	+5/0%	+5/0%
Panel Efficiency	22.5%	22.0%	21.5%
Rated Voltage (V _{mpp})	40.5 V	40.0 V	39.5 V
Rated Current (I _{mpp})	10.4 A	10.2A	10.1 A
Open-Circuit Voltage (V _{oc})	48.2 V	48.2 V	48.1 V
Short-Circuit Current (I _{sc})	10.9 A	10.9 A	10.9 A
Max. System Voltage	1000 V UL		
Maximum Series Fuse	20 A		
Power Temp Coef.	-0.29% / °C		
Voltage Temp Coef.	-136 mV / °C		
Current Temp Coef.	4.1 mA / °C		

Tests And Certifications - Pending	
Standard Tests	UL1703
Quality Management Certs	ISO 9001:2015, ISO 14001:2015
EHS Compliance	RoHS, OHSAS 18001:2007, lead free, Recycle Scheme, REACH SVHC-163
Ammonia Test	IEC 62716
Desert Test	10.1109/PVSC.2013.6744437
Salt Spray Test	IEC 61701 (maximum severity)
PID Test	1000 V: IEC 62804
Available Listings	UL

1 SunPower 420 W, 22.5% efficient, compared to a Conventional Panel on same-sized arrays (260 W, 16% efficient, approx. 1.6 m²), 8% more energy per watt (based on PVsyst pan files for avg US climate), 0.5%/yr slower degradation rate (Jordan, et. al. "Robust PV Degradation Methodology and Application." PVSC 2018).

2 Based on search of datasheet values from websites of top 20 manufacturers per IHS, as of January 2019.

3 #1 rank in "Fraunhofer PV Durability Initiative for Solar Modules: Part 3". PVTech Power Magazine, 2015. Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, 2013.

4 Maxison panels additionally contribute to LEED Materials and Resources credit categories.

5 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C). NREL calibration Standard: SOMS current, LACCS FF and Voltage.

See www.sunpower.com/company for more reference information.

For more details, see extended datasheet: www.sunpower.com/solar-resources.

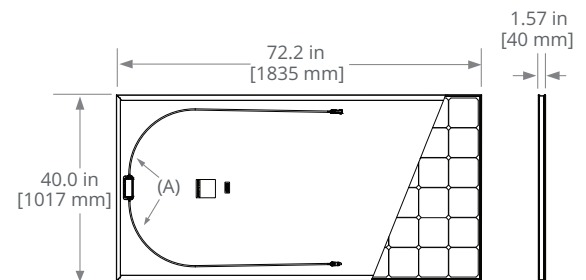
Specifications included in this datasheet are subject to change without notice.

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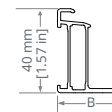
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Operating Condition And Mechanical Data	
Temperature	-40° F to +185° F (-40° C to +85° C)
Impact Resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)
Appearance	Class A+
Solar Cells	66 Monocrystalline Maxison Gen 5
Tempered Glass	High-transmission tempered anti-reflective
Junction Box	IP-68, MC4 Compatible
Weight	37 lbs (16.8 kg)
Max. Load	Wind: 75 psf, 3600 Pa, 367 kg/m ² front & back Snow: 125 psf, 6000 Pa, 612 kg/m ² front
Frame	Class 1 black anodized (highest AAMA rating)



FRAME PROFILE



(A) Cable Length: 52 in +/-0.4 in [1320 mm +/-10 mm]

(B) Long Side: 1.3 in [32 mm]

Short Side: 0.9 in [24 mm]

Please read the safety and installation guide.

SUNPOWER®

533065 Rev A / LTR_US