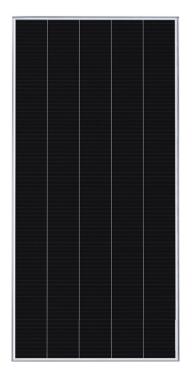
# SUNPOWER | performance

White Backsheet Silver Frame

Making the conventional, exceptional

#### PRELIMINARY DATASHEET



### Engineered for Performance

- Smaller cells stay cooler when shaded, extending panel life<sup>3</sup>
- Advanced encapsulant minimizes degradation from environmental exposure
- Conductive adhesive defends against daily temperature swings
- Redundant cell connections create flexible paths for continuous electricity flow



## PERFORMANCE 6 COM-XS | 400-420

#### POWER RANGE: 400-420 W

The SunPower Performance COM-XS panel utilises high efficiency 210mm solar cells with currentcollecting wires on the cell face to deliver more lifetime energy over standard solar panels.

Backed by an industry-leading warranty and an estimated 35-year useful life,<sup>1</sup> SunPower Performance panels wrap conventional front contact cells with 35 years of materials, engineering and manufacturing expertise to mitigate the reliability challenges of Conventional Panel design.

#### **Durability that Translates to More Energy**

Engineered to stand up to environmental stresses such as shading, daily temperature swings and high humidity, the SunPower Performance 6 panel delivers more energy in the same space over 25 years compared to Conventional mono PERC Panels.

#### A Track Record of Innovation Leadership

SunPower Performance panels represent the most deployed shingled cell panel in the industry—innovation protected by a growing portfolio of patents worldwide.<sup>2</sup>



6+ GW Deployed





90+ Patents

#### A Better Product. A Better Warranty.

Each SunPower Performance panel is manufactured with the confidence to deliver more energy and reliability over time—and backed for 25 years by the SunPower Complete Confidence Panel Warranty.

- Year 1 Minimum Warranted Power Output
  98.0%
- Maximum Annual Degradation
  0.45%
- Year 25 Minimum Warranted Power Output
  87.2%

#### PERFORMANCE 6 COM-XS POWER: 400 - 420 W

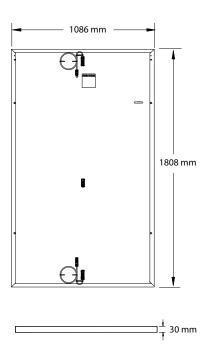
#### PRELIMINARY DATASHEET

Electrical Data					
Model	SPR-P6-420-COM-XS	SPR-P6-415-COM-XS	SPR-P6-410-COM-XS	SPR-P6-405-COM-XS	SPR-P6-400-COM-XS
Nominal Power (Pnom) <sup>4</sup>	420 W	415 W	410 W	405 W	400 W
Power Tolerance	+3/0%	+3/0%	+3/0%	+3/0%	+3/0%
Efficiency	21.4%	21.1%	20.9%	20.6%	20.4%
Rated Voltage (Vmpp)	30.4 V	30.1 V	29.8 V	29.5 V	29.2 V
Rated Current (Impp)	13.84 A	13.81 A	13.78 A	13.75 A	13.72 A
Open-Circuit Voltage (Voc) (+/-3%)	36.2 V	36.0 V	35.8 V	35.6 V	35.4 V
Short-Circuit Current (Isc) (+/-3%)	14.72 A	14.69 A	14.66 A	14.63 A	14.60 A

Mechanical Data			
Impact Resistance	25 mm diameter hail at 23 m/s		
Solar Cells	Monocrystalline PERC		
Glass	3.2 mm, Heat Strengthened Glass		
Junction Box	IP-68, 3 bypass diodes		
Connector	EVO2		
Weight	21.0 kg		
Max. Load	Wind: 2400 Pa, 245 kg/m² front & back		
	Snow: 5400 Pa, 550 kg/m² front		
Frame	Silver Anodized Alloy		

Electrical Data				
Maximum System Voltage	1500 V IEC			
Temperature	-40°C to +85°C			
Maximum Series Fuse	25 A			
Power Temp. Coef.	-0.34% / ° C			
Voltage Temp. Coef.	–0.27% / ° C			
Current Temp. Coef.	0.04% / ° C			

Tests And Certifications (Pending)
IEC 61215, IEC 61730
Class C (IEC 61730)
ISO 9001:2015, ISO 14001:2015
ISO 45001-2018, Recycling Scheme
IEC 62716
IEC 60068-2-68
IEC 61701 (maximum severity)
TUV 2fg 2689/04.19 (LeTID Detection)
IEC 62804







(A) Cable Length: 1200 mm +/-15 mm(B) Long Side: 33 mm Short Side: 24 mm

1 Performance panels expected useful life of 35 years. Source: "SunPower P-Series Technology Technical Review," Leidos Independent Engineer Report. 2016.

2 Osborne. "SunPower supplying P-Series modules to a 125MW NextEra project." PV-Tech.org. March 2017.

3 SunPower Performance Series – Thermal Performance, Z.Campeau 2016.

4 Measured at Standard Test Conditions (STC): irradiance of 1000 W/m², AM 1.5, and cell temperature 25° C.

Designed in U.S.A Assembled in China

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

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Please read the safety and installation instructions. Visit www.sunpower.maxeon.com/int/PVInstallGuideIEC Paper version can be requested through techsupport.ROW@maxeon.com

