



Shingled Cell



Black Backsheet  
Black Frame



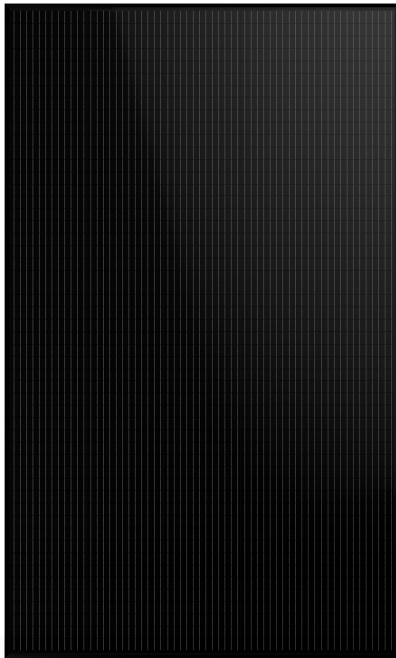
Residential  
Black Frame

## PERFORMANCE 6 BLK | 395-415

POWER RANGE: 395 – 415 W

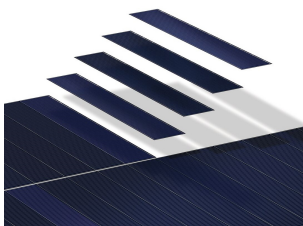
With a sleek black design that elegantly blends into any roof, the SunPower Performance 6 BLK panel utilises high efficiency 210mm solar cells with current-collecting wires on the cell face to deliver more lifetime energy over standard solar panels.

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.



### 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



### 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



60+  
Countries



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.

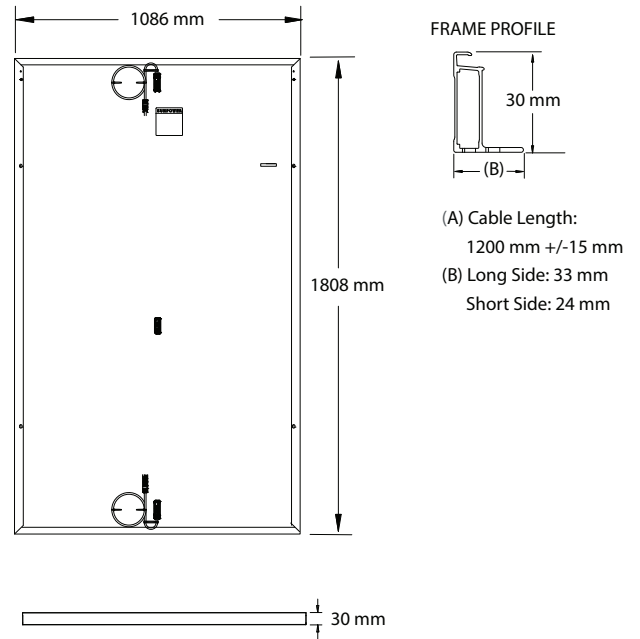
- Year 1 Minimum Warranted Power Output 98.0%
- Maximum Annual Degradation 0.45%
- Year 25 Minimum Warranted Power Output 87.2%

Electrical Data					
Model	SPR-P6-415-BLK	SPR-P6-410-BLK	SPR-P6-405-BLK	SPR-P6-400-BLK	SPR-P6-395-BLK
Nominal Power (P <sub>nom</sub> ) <sup>4</sup>	415 W	410 W	405 W	400 W	395 W
Power Tolerance	+3/0%	+3/0%	+3/0%	+3/0%	+3/0%
Efficiency	21.1%	20.9%	20.6%	20.4%	20.1%
Rated Voltage (V <sub>mpp</sub> )	30.2 V	29.9 V	29.6 V	29.3 V	29.0 V
Rated Current (I <sub>mpp</sub> )	13.76 A	13.73 A	13.70 A	13.67 A	13.64 A
Open-Circuit Voltage (V <sub>oc</sub> ) (+/-3%)	36.1 V	35.9 V	35.7 V	35.5 V	35.3 V
Short-Circuit Current (I <sub>sc</sub> ) (+/-3%)	14.66 A	14.63 A	14.60 A	14.57 A	14.55 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	Stäubli MC4
Weight	21.0 kg
Max. Load	Wind: 2400 Pa, 245 kg/m <sup>2</sup> front & back Snow: 5400 Pa, 550 kg/m <sup>2</sup> front
Frame	Anodized Aluminum Alloy

Electrical Data	
Maximum System Voltage	1000 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)	
Standard Tests	IEC 61215, IEC 61730
Fire Rating	Class C (IEC 61730)
Quality Certs	ISO 9001:2015, ISO 14001:2015
EHS Compliance	ISO 45001-2018, Recycling Scheme
Ammonia Test	IEC 62716
Dust and Sand	IEC 60068-2-68
Salt Spray Test	IEC 61701 (maximum severity)
PID Test	IEC 62804



- 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/m<sup>2</sup>, 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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