

SPR-P7-XXX-BLK

PERFORMANCE 7 SOLAR PANEL

430-450 W | Up to 22.2% Efficient



Ideal for residential applications



Framed glass-glass



Bifacial energy generation

Enhanced Power Density

With high efficiency TOPCon cell technology offering strong LID-resistance, increased bifacial energy capture, and a lower temperature coefficient, SunPower Performance panels are uniquely engineered to deliver more lifetime energy compared to standard solar panels.

Proven Reliability

SunPower Performance panel durability is maximised in all types of weather conditions from an innovative shingled design that withstands the stresses of daily temperature swings, an advanced encapsulant that shields components from humidity-induced corrosion, and an advanced electrical architecture that offers resilience against the effects of shade, while mitigating hot-spot formation.



SunPower Complete Confidence Warranty

Each SunPower Performance panel is manufactured with the absolute confidence to deliver more energy and greater reliability over time—and backed for 25 years by one of the industry’s most comprehensive warranties.

Product and power coverage	25 / 25 Years
Year 1 minimum warranted output	99.0%
Maximum annual degradation	0.4%



Learn more about the SPR-P7-XXX-BLK
sunpower.maxeon.com

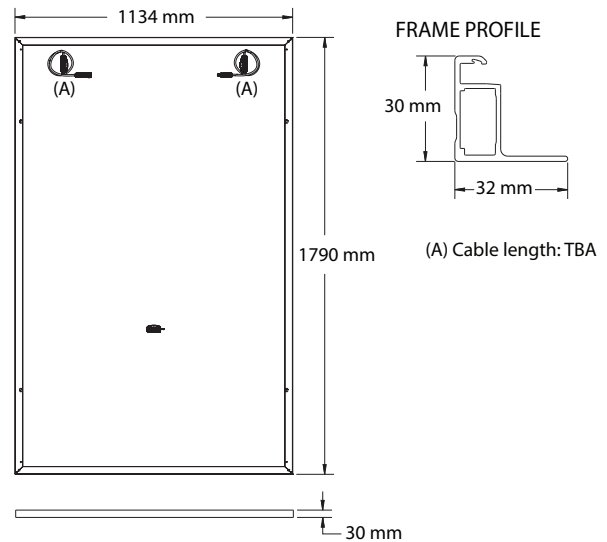
Electrical Data, Front STC Characteristics ¹					
	SPR-P7-450-BLK	SPR-P7-445-BLK	SPR-P7-440-BLK	SPR-P7-435-BLK	SPR-P7-430-BLK
Nominal Power (Pnom)	450 W	445 W	440 W	435 W	430 W
Power Tolerance	+3/0%	+3/0%	+3/0%	+3/0%	+3/0%
Panel Efficiency	22.2%	21.9%	21.7%	21.4%	21.2%
Rated Voltage (Vmpp)	34.6 V	34.3 V	34.0 V	33.7 V	33.5 V
Rated Current (Impp)	13.01 A	12.98 A	12.95 A	12.92 A	12.84 A
Open-Circuit Voltage (Voc) (+/-3%)	41.5 V	41.4 V	41.2 V	41.0 V	40.8 V
Short-Circuit Current (Isc) (+/-3%)	13.44 A	13.40 A	13.36 A	13.32 A	13.27 A

Bifacial Gain ²					
Pmax with 5% Bifacial Gain	473 W	467 W	462 W	457 W	452 W
Isc with 5% Bifacial Gain	14.12 A	14.07 A	14.03 A	13.98 A	13.94 A
Pmax with 10% Bifacial Gain	495 W	490 W	484 W	479 W	473 W
Isc with 10% Bifacial Gain	14.79 A	14.74 A	14.69 A	14.65 A	14.60 A
Pmax with 20% Bifacial Gain	540 W	534 W	528 W	522 W	516 W
Isc with 20% Bifacial Gain	16.13 A	16.08 A	16.03 A	15.98 A	15.93 A

Mechanical Data	
Impact Resistance	25 mm diameter hail at 23 m/s
Solar Cells	N-type Topcon
Glass	1.6 mm, heat strengthened glass
Junction Box	IP-68, 3 bypass diodes
Connector	Stäubli MC4
Weight	21.6 kg
Max. Load	Wind: 2400 Pa, 245 kg/m ² front & back Snow: 5400 Pa, 550 kg/m ² front
Frame	Black anodized aluminum alloy

Electrical Data	
Bifaciality (φPmax)	80% +/-10%
Maximum System Voltage	1000 V IEC
Temperature	-40°C to +85°C
Maximum Series Fuse	25 A
Power Temp. Coef.	-0.30% / ° C
Voltage Temp. Coef.	-0.25% / ° C
Current Temp. Coef.	0.045% / ° 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)
LeTID Test	TUV 2fg 2689/04.19 (LeTID Detection)
PID Test	IEC 62804



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

¹ Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C). NREL calibration Standard: SOMS current, LACCS FF and Voltage.

² The additional gain from the back side of the panel compared to the power of the front side of the panel at the standard test conditions. It depends on mounting (structure, height, tilt angle etc.) and albedo of the underlying surface.