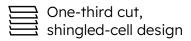
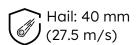
SunPower Performance 7

Home Solar Panel

495-510 W | SPR-P7-XXX-BLK-P











High lifetime energy production

The shingled-cell design helps to manage shade and keep cell temperatures low to produce more power over time.

Made for real weather

It's strong frame and cell connection design helps to protect the panels against weather challenges like temperature swings, snow loads, and hail.

No sacrifices for curb appeal

Smaller metallic wires help to achieve a sleek black appearance to seamlessly integrate into your roof.

Sustainable at its core

As one of the top 50 most sustainable companies, ¹ Maxeon designs panels with sustainability in mind – from materials and manufacturing to conflict tracing and zero tolerance of labour rights violations.





A better product, a better warranty

SunPower Performance 7 panels are covered by a 30-year warranty.² Manufactured for long-term durability—covering defects related to workmanship and materials for a full 30 years.

Product and power coverage 30 Years
Year 1 minimum warranted output 99.0%
Maximum annual degradation 0.4%





Performance 7 POWER: 495-510 W | EFFICIENCY: Up to 22.5%

Electrical Data, Front STC Characteristics ³				
	SPR-P7-510-BLK-P	SPR-P7-505-BLK-P	SPR-P7-500-BLK-P	SPR-P7-495-BLK-P
Nominal Power (Pnom) ⁴	510 W	505 W	500 W	495 W
Power Binning	+3/0%	+3/0%	+3/0%	+3/0%
Panel Efficiency	22.5%	22.3%	22.1%	21.9%
Rated Voltage (Vmpp)	39.69 V	39.43 V	39.16 V	38.89 V
Rated Current (Impp)	12.85 A	12.81 A	12.77 A	12.73 A
Open-Circuit Voltage (Voc) ⁴	47.00 V	46.83 V	46.67 V	46.50 V
Short-Circuit Current (Isc) ⁴	13.56 A	13.53 A	13.50 A	13.48 A

		Bifacial Gain ⁵		
Pmax with 5% Bifacial Gain	536 W	530 W	525 W	520 W
Isc with 5% Bifacial Gain	14.24 A	14.21 A	14.18 A	14.15 A
Pmax with 10% Bifacial Gain	561 W	556 W	550 W	545 W
Isc with 10% Bifacial Gain	14.92 A	14.88 A	14.85 A	14.83 A
Pmax with 20% Bifacial Gain	612 W	606 W	600 W	594 W
Isc with 20% Bifacial Gain	16.27 A	16.24 A	16.20 A	16.18 A

		BNPI Data ⁶		
Nominal Power (Pmax) ⁴	559 W	553 W	548 W	542 W
Open-Circuit Voltage (Voc) ⁴	47.15 V	46.95 V	46.81 V	46.62 V
Short-Circuit Current (Isc) ⁴	14.86 A	14.82 A	14.79 A	14.77 A

Electrical Data			
Bifaciality (φPmax/φIsc)	80% +/-10%		
Bifaciality (φVoc)	98% +/-2%		
Maximum System Voltage	1500 V IEC		
Testing Temperature	-40°C to +85°C		
Maximum Series Fuse	25 A		
Power Temp. Coef.	-0.29% / °C		
Voltage Temp. Coef.	-0.25% / °C		
Current Temp. Coef.	0.045% / °C		

Packaging Configuration		
Number of modules per pallet	36	
Number of pallets per 40ft HQ container	22	
Number of modules per container	792	

Tests And Certifications		
Standard Tests	IEC 61215, IEC 61730	
Fire Rating	Class A (IEC 61730-2 / UL 790)	
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 (Test Method 8)	
LeTID Test	IEC TS 63342	
PID Test	IEC 62804	
Cradle to Cradle Certified™ Bronze	Panel line certified for material health, water stewardship, material reutilization, renewable energy & carbon management, and social fairness. ⁷	



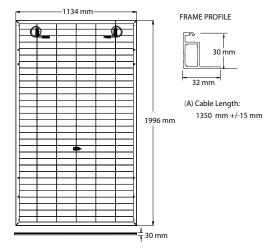
- 1 Corporate Knights Global 100 Ranking 2024:
- https://www.corporateknights.com/rankings/global-100-rankings/2024-global-100-rankings/the-20th-annual-global-100/.
- 2 The SPR-P7-BLK-P solar panels are backed by a 30-year warranty. Subject to terms and conditions. Not available in all countries. 30-year warranty requires registration, otherwise our 25-year warranty applies. Not available for earlier generation Performance panels, where a 25-year warranty applies.
- 3 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C). NREL calibration Standard: SOMS current, LACCS FF and Voltage.
- 4 Measurements tolerance +/-3%.
- 5 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.
- 6 BNPI Test Condition (front 1000 W/m², rear 135W/m² irradiance, AM 1.5, 25° C).
- 7 Performance DC panels are Cradle to Cradle Certified™ Bronze

www. c2ccertified.org/certified-products/maxeon-performance-solar-panels. Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute. 8 Test load as per IEC 61215-2 is equal to design load with safety factor = 1.5. See "Safety and Installation Instructions" for details.

Designed in U.S.A.
Assembled in China
Specifications included in this datasheet are subject to change without notice.
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View warranty, patent and trademark information at maxeon.com/legal.

Mechanical Data		
Solar Cells	N-type TOPCon	
Glass	2.0 mm + 2.0 mm, high transmission heat strengthened glass, AR coating on front glass	
Junction Box	IP-68, 3 bypass diodes	
Connector	Stäubli MC4-EVO2A	
Weight	27.5 kg	
Max. Load ⁸	Wind: 2400 Pa, 245 kg/m² front & back Snow: 5400 Pa, 550 kg/m² front	
Impact Resistance	40 mm diameter hail at 27.5 m/s	
Frame	Black anodized aluminum allov	





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

SUNPOWER

FROM MAXEON SOLAR TECHNOLOGIES