SunPower Performance 7

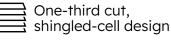
Home Solar Panel

440-455 W | SPR-P7-XXX-BLK









Hail: 40 mm (27.5 m/s)



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.

Corporate **Rnights**



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 Year 1 minimum warranted output Maximum annual degradation 30 Years 99.0% 0.4%



Learn more about SunPower Performance panels **sunpower.maxeon.com**



Performance 7 POWER: 440-455 W | EFFICIENCY: Up to 22.4%

16.14 A

Electrical Data, Front STC Characteristics ³				
	SPR-P7-455-BLK	SPR-P7-450-BLK	SPR-P7-445-BLK	SPR-P7-440-BLK
	SPR-P7-455-BLK-1500	SPR-P7-450-BLK-1500	SPR-P7-445-BLK-1500	SPR-P7-440-BLK-1500
Nominal Power (Pnom)	455 W	450 W	445 W	440 W
Power Tolerance	+3/0%	+3/0%	+3/0%	+3/0%
Panel Efficiency	22.4%	22.2%	21.9%	21.7%
Rated Voltage (Vmpp)	35.70 V	35.45 V	35.20 V	34.95 V
Rated Current (Impp)	12.75 A	12.70 A	12.65 A	12.60 A
Open-Circuit Voltage (Voc) (+/-3%)	42.13 V	41.95 V	41.77 V	41.59 V
Short-Circuit Current (Isc) (+/-4%)	13.45 A	13.38 A	13.32 A	13.29 A
	Bit	acial Gain⁴		
Pmax with 5% Bifacial Gain	478 W	473 W	467 W	462 W
Isc with 5% Bifacial Gain	14.12 A	14.05 A	13.99 A	13.95 A
Pmax with 10% Bifacial Gain	501 W	495 W	490 W	484 W
Isc with 10% Bifacial Gain	14.80 A	14.72 A	14.65 A	14.62 A
Pmax with 20% Bifacial Gain	546 W	540 W	534 W	528 W

16.06 A

Electrical Data		
Bifaciality (φPmax)	80% +/-10%	
Maximum System Voltage	1000 V & 1500 V IEC	
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	

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 or EVO2		
Weight	24.8 kg		
Max. Load ⁶	Wind: 4000 Pa, 408 kg/m² front & back		
	Snow: 6000 Pa, 611 kg/m² front		
Impact Resistance	40 mm diameter hail at 27.5 m/s		
Frame	Black anodized aluminum alloy		

15.98 A

Packaging Configuration			
Number of modules per pallet	36		
Number of pallets per 40ft HQ container	24		
Number of modules per container	864		

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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 (Severity 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. ⁵	



Isc with 20% Bifacial Gain

1 Corporate Knights Global 100 Ranking 2024:

https://www.corporateknights.com/rankings/global-100-rankings/2024-global-100rankings/the-20th-annual-global-100/

2 Performance 7 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.

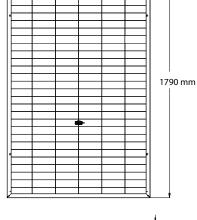
4 The additional gain from the back side of the panel compared to the power of the front side of the panel at the standard test conditions. It depends on mounting (structure, height, tilt angle etc.) and albedo of the underlying surface. 5 Performance DC panels are Cradle to Cradle Certified™ Bronze

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.

6 As per IEC 61215 tested and certified. See Safety and Installation Guideline for details.

Designed in U.S.A. Assembled in China

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1134 mm

FRAME PROFILE

15.95 A



(A) Cable Length:

1200 mm +/-15 mm

± 7 30 mm

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



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