# SunPower Performance 7

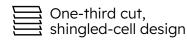
## Home Solar Panel

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





Framed glass-glass



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,<sup>1</sup> Maxeon designs panels with sustainability in mind – from materials and manufacturing to conflict tracing and zero tolerance of labour rights violations.

Corporate Knights



#### A better product, a better warranty

SunPower Performance 7 panels are covered by a 30-year warranty.<sup>2</sup> 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%

14.78 A

Electrical Data, Front STC Characteristics <sup>3</sup>				
	SPR-P7-455-BLK SPR-P7-455-BLK-1500	SPR-P7-450-BLK SPR-P7-450-BLK-1500	SPR-P7-445-BLK SPR-P7-445-BLK-1500	SPR-P7-440-BLK SPR-P7-440-BLK-1500
Nominal Power (Pnom) <sup>4</sup>	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) <sup>4</sup>	42.13 V	41.95 V	41.77 V	41.59 V
Short-Circuit Current (Isc) <sup>4</sup>	13.45 A	13.38 A	13.32 A	13.29 A
	Bif	facial Gain⁵		
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
Isc with 20% Bifacial Gain	16.14 A	16.06 A	15.98 A	15.95 A
	В	NPI Data <sup>6</sup>		
Nominal Power (Pmax) <sup>4</sup>	499 W	494 W	488 W	483 W
Open-Circuit Voltage (Voc) <sup>4</sup>	42.26 V	42.10 V	41.90 V	41.73 V

14.71 A

Electrical Data		
Bifaciality (φPmax/ φIsc)	80% +/-10%	
Bifaciality (φVoc)	98% +/-2%	
Maximum System Voltage	1000 V & 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**

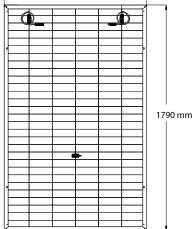
Number of modules per pallet	36
Number of pallets per 40ft HQ container	24
Number of modules per container	864

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 <sup>7</sup>		



**Mechanical Data** 

14.63 A





14.61 A



(A) Cable Length: 1200 mm +/-15 mm



Short-Circuit Current (Isc)4

#### 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 Measurement tolerances (Pmax/Voc +/-3%, Isc +/-4%).

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.

a Test load as per IEC 61215-2 is equal to design load with safety factor = 1.5. See "Safety and Installation Instructions.

#### Designed in U.S.A.

Assembled in China Specifications included in this datasheet are subject to change without notice. ©2024 Maxeon Solar Technologies, Ltd. All Rights Reserved.

View warranty, patent and trademark information at maxeon.com/legal.



Please read the safety and installation instructions.

Visit www.maxeon.com/PVInstallGuide. Paper version can be requested through techsupport.ROW@maxeon.com.

🕇 30 mm



FROM MAXEON SOLAR TECHNOLOGIES