

SunPower Performance 7

Commercial Solar Panel

535-555 W | SPR-P7-XXX-COM-S



Bifacial energy generation



Framed glass-glass



One-third cut, shingled-cell design



Hail: 40 mm (27.5 m/s)



Fire Rating: Class A (IEC/UL)

Reduced Operating Costs

The Performance panel delivers energy production your bottom line can count on—leveraging high efficiency cells and an advanced electrical architecture to generate the energy you need to hedge future power bills.

Secure, Reliable Investment

The advanced engineering of the Performance panel provides reliable high power and a longer product lifecycle to maximise your return-on-investment. Rest assured knowing our nearly 40-years of solar experience and best-in-class warranty prove these panels are up to the challenge, day-in and day-out.

A Better Product for a Better Planet

Performance panels are Bronze Cradle to Cradle Certified®. Feel confident knowing your panel is produced from a clean supply chain with the highest quality standards of materials and human rights. It's a quick win for your ESG goals.



A better product, a better warranty

SunPower Performance 7 panels are covered by a 30-year warranty.¹ Manufactured for long-term durability — covering defects related to workmanship and materials for a full 30 years.

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

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Learn more about SunPower Performance panels
www.sunpowerglobal.com



Performance 7 POWER: 535–555 W | EFFICIENCY: Up to 22.7%

Electrical Data, Front STC Characteristics ²					
	SPR-P7-555-COM-S	SPR-P7-550-COM-S	SPR-P7-545-COM-S	SPR-P7-540-COM-S	SPR-P7-535-COM-S
Nominal Power (P _{nom}) ³	555 W	550 W	545 W	540 W	535 W
Power Binning	+3/0%	+3/0%	+3/0%	+3/0%	+3/0%
Panel Efficiency	22.7%	22.5%	22.3%	22.1%	21.9%
Rated Voltage (V _{mpp})	43.30 V	43.08 V	42.85 V	42.63 V	42.40 V
Rated Current (I _{mp})	12.82 A	12.77 A	12.72 A	12.67 A	12.62 A
Open-Circuit Voltage (V _{oc}) ³	50.88 V	50.70 V	50.52 V	50.34 V	50.14 V
Short-Circuit Current (I _{sc}) ³	13.52 A	13.48 A	13.45 A	13.42 A	13.39 A

Bifacial Gain ⁴					
P _{max} with 5% Bifacial Gain	583 W	578 W	572 W	567 W	562 W
I _{sc} with 5% Bifacial Gain	14.20 A	14.15 A	14.12 A	14.09 A	14.06 A
P _{max} with 10% Bifacial Gain	611 W	605 W	600 W	594 W	589 W
I _{sc} with 10% Bifacial Gain	14.87 A	14.83 A	14.80 A	14.76 A	14.73 A
P _{max} with 20% Bifacial Gain	666 W	660 W	654 W	648 W	642 W
I _{sc} with 20% Bifacial Gain	16.22 A	16.18 A	16.14 A	16.10 A	16.07 A

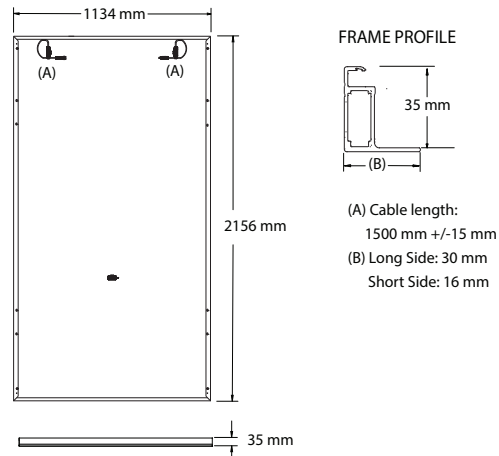
BNPI Data ⁵					
Nominal Power (P _{max}) ³	610 W	605 W	599 W	594 W	588 W
Open-Circuit Voltage (V _{oc}) ³	51.04 V	50.88 V	50.68 V	50.52 V	50.30 V
Short-Circuit Current (I _{sc}) ³	14.89 W	14.85 W	14.81 W	14.79 W	14.75 W

Electrical Data	
Bifaciality (φP _{max} /φI _{sc})	80% +/-10%
Bifaciality (φV _{oc})	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	33
Number of pallets per 40ft HQ container	20
Number of modules per container	660

Tests And Certifications	
Standard Tests	IEC 61215, IEC 61730 Rated to 1500 V
Fire Ratings	Class A (IEC 61730-2 / UL 790)
Protection Class	Class II (IEC 61140)
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 61215-2 Ed.2 CD
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. ⁶

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	30.3 kg
Max. Load ⁷	Wind: 2400 Pa, 245 kg/m ² front & back Snow: 5400 Pa, 550 kg/m ² front
Impact Resistance	40 mm diameter hail at 27.5 m/s
Frame	Silver anodized aluminum alloy



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



1 The SPR-P7-COM-S 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.
 2 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C). NREL calibration Standard: SOMS current, LACCS FF and Voltage.
 3 Measurement tolerance: P_{max}/V_{oc} +/-3%, I_{sc} +/-4%
 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 BNPI Test Condition (front 1000 W/m², rear 135W/m² irradiance, AM 1.5, 25° C).
 6 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.
 7 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
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