

# SunPower Performance 7

## Commercial Solar Panel

535–560 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.<sup>1</sup> 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](http://www.sunpowerglobal.com)



Performance 7 POWER: 535–560 W | EFFICIENCY: Up to 22.9%

| Electrical Data, Front STC Characteristics <sup>2</sup> |                  |                  |                  |                  |                  |                  |
|---------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                                         | SPR-P7-560-COM-S | 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 <sub>nom</sub> ) <sup>3</sup>          | 560 W            | 555 W            | 550 W            | 545 W            | 540 W            | 535 W            |
| Power Binning                                           | +3/0%            | +3/0%            | +3/0%            | +3/0%            | +3/0%            | +3/0%            |
| Panel Efficiency                                        | 22.9%            | 22.7%            | 22.5%            | 22.3%            | 22.1%            | 21.9%            |
| Rated Voltage (V <sub>mpp</sub> )                       | 43.52 V          | 43.30 V          | 43.08 V          | 42.85 V          | 42.63 V          | 42.40 V          |
| Rated Current (I <sub>mp</sub> )                        | 12.87 A          | 12.82 A          | 12.77 A          | 12.72 A          | 12.67 A          | 12.62 A          |
| Open-Circuit Voltage (V <sub>oc</sub> ) <sup>3</sup>    | 51.06 V          | 50.88 V          | 50.70 V          | 50.52 V          | 50.34 V          | 50.14 V          |
| Short-Circuit Current (I <sub>sc</sub> ) <sup>3</sup>   | 13.56 A          | 13.52 A          | 13.48 A          | 13.45 A          | 13.42 A          | 13.39 A          |

| Bifacial Gain <sup>4</sup>              |         |         |         |         |         |         |
|-----------------------------------------|---------|---------|---------|---------|---------|---------|
| P <sub>max</sub> with 5% Bifacial Gain  | 588 W   | 583 W   | 578 W   | 572 W   | 567 W   | 562 W   |
| I <sub>sc</sub> with 5% Bifacial Gain   | 14.24 A | 14.20 A | 14.15 A | 14.12 A | 14.09 A | 14.06 A |
| P <sub>max</sub> with 10% Bifacial Gain | 616 W   | 611 W   | 605 W   | 600 W   | 594 W   | 589 W   |
| I <sub>sc</sub> with 10% Bifacial Gain  | 14.92 A | 14.87 A | 14.83 A | 14.80 A | 14.76 A | 14.73 A |
| P <sub>max</sub> with 20% Bifacial Gain | 672 W   | 666 W   | 660 W   | 654 W   | 648 W   | 642 W   |
| I <sub>sc</sub> with 20% Bifacial Gain  | 16.27 A | 16.22 A | 16.18 A | 16.14 A | 16.10 A | 16.07 A |

| BNPI Data <sup>5</sup>                                |         |         |         |         |         |         |
|-------------------------------------------------------|---------|---------|---------|---------|---------|---------|
| Nominal Power (P <sub>max</sub> ) <sup>3</sup>        | 616 W   | 610 W   | 605 W   | 599 W   | 594 W   | 588 W   |
| Open-Circuit Voltage (V <sub>oc</sub> ) <sup>3</sup>  | 51.24 V | 51.04 V | 50.88 V | 50.68 V | 50.52 V | 50.30 V |
| Short-Circuit Current (I <sub>sc</sub> ) <sup>3</sup> | 14.94 W | 14.89 W | 14.85 W | 14.81 W | 14.79 W | 14.75 W |

| Electrical Data                                    |                |
|----------------------------------------------------|----------------|
| Bifaciality (φP <sub>max</sub> /φI <sub>sc</sub> ) | 80% +/-10%     |
| Bifaciality (φV <sub>oc</sub> )                    | 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. <sup>6</sup> |



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<sub>max</sub>/V<sub>oc</sub> +/-3%, I<sub>sc</sub> +/-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.

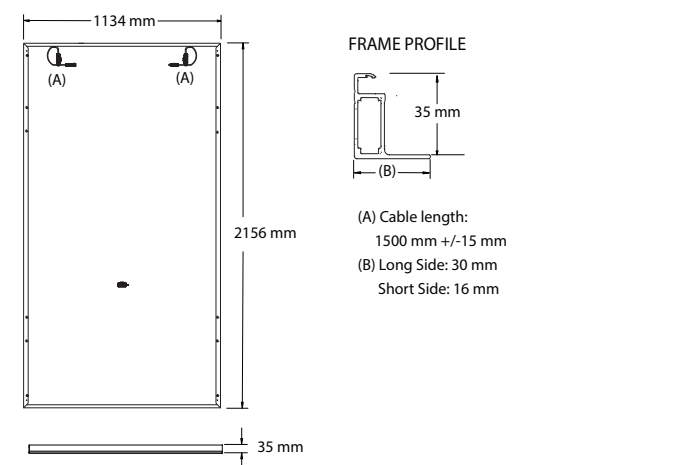
5 BNPI Test Condition (front 1000 W/m², rear 135W/m² irradiance, AM 1.5, 25° C).

6 Performance DC panels are Cradle to Cradle Certified™ Bronze - [www.c2ccertified.org/certified-products/maxeon-performance-solar-panels](http://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  
Specifications included in this datasheet are subject to change without notice.  
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View warranty, patent and trademark information at [sunpowerglobal.com/legal](http://sunpowerglobal.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                 | 30.3 kg                                                                               |
| Max. Load <sup>7</sup> | Wind: 2400 Pa, 245 kg/m² front & back<br>Snow: 5400 Pa, 550 kg/m² 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](http://www.sunpowerglobal.com/PVInstallGuide) Paper version can be requested through [techsupport.ROW@sunpowerglobal.com](mailto:techsupport.ROW@sunpowerglobal.com)

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