



SunPower® P19-320-BLK

SunPower® Performance Panel for Residential Installations

SunPower Performance Panels wrap front contact cells with 30+ years of SunPower materials and manufacturing expertise. The weakest points of Conventional Panel design are eliminated to deliver superior power, reliability, value and savings.¹



High Power

Enhanced active area and monocrystalline cells increase power and savings while designing out fragile ribbons and solder bonds on the cells.



High Performance

Up to 28% more energy in the same space over 25 years.² Outperforms Conventional Panels in partial shade thanks to unique parallel circuitry. Proprietary bussing design limits power loss, maximizing production during morning and evening shading or soiling.



Premium Aesthetics

SunPower® Performance Panels with their black frame and black backsheets blend harmoniously into your roof and add elegance to your home.



High Reliability

SunPower Performance Panels are the most deployed shingled solar panel in the world.³ Innovative cell shingling mitigates the leading reliability challenges associated with conventional front contact panels by designing out fragile ribbons and solder bonds on the cells. SunPower stands behind its panels with its industry-leading Complete Confidence Warranty.



Proven Performance

aerospace industry.

Innovative Design

Engineered for

Performance



• Robust and flexible cell connection

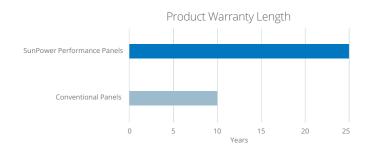
technology. Outstanding reliability.

Conductive adhesive, proven in the

• Redundant cell to cell connections.

- Named as a Top Performer in all DNV/GL reliability tests.
- Reduced panel temperature due to unique electrical bussing.

25 Year Combined Warranty

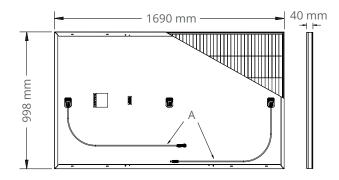


P19-320-BLK: SunPower® Performance Panel for Residential Installations

| Electrical Data | | | | | | | |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| Model | SPR-P19-335-BLK | SPR-P19-330-BLK | SPR-P19-325-BLK | SPR-P19-320-BLK | SPR-P19-315-BLK | SPR-P19-310-BLK | |
| Nominal Power (Pnom) ⁴ | 335 W | 330 W | 325 W | 320 W | 315 W | 310 W | |
| Power Tolerance | +5/-0% | +5/-0% | +5/-0% | +5/-0% | +5/-0% | +5/-0% | |
| Efficiency | 19.9% | 19.6% | 19.3% | 19.0% | 18.7% | 18.4% | |
| Rated Voltage (Vmpp) | 37.5 V | 37.2 V | 36.9 V | 36.4 V | 35.9 V | 35.4 V | |
| Rated Current (Impp) | 8.94 A | 8.87 A | 8.80 A | 8.79 A | 8.77 A | 8.76 A | |
| Open-Circuit Voltage (Voc) | 44.8 V | 44.6 V | 44.4 V | 43.9 V | 43.7 V | 43.2 V | |
| Short-Circuit Current (Isc) | 9.51 A | 9.44 A | 9.37 A | 9.35 A | 9.33 A | 9.28 A | |
| Maximum System Voltage | 1000 V IEC | | | | | | |
| Maximum Series Fuse | 18 A | | | | | | |
| Power Temp. Coef. | -0.37% / °C | | | | | | |
| Voltage Temp. Coef. | −0.29% / °C | | | | | | |
| Current Temp. Coef. | 0.05% / °C | | | | | | |

| | Table As I Codification |
|-----------------------------|------------------------------------|
| | Tests And Certifications |
| Standard Tests ⁵ | IEC 61215, IEC 61730 |
| Quality Certs | ISO 9001:2008, ISO 14001:2004 |
| EHS Compliance | OHSAS 18001:2007, Recycling Scheme |
| Available Listings | TUV |

| Operating Condition And Mechanical Data | | | | |
|---|--|--|--|--|
| Temperature | -40°C to +85°C | | | |
| Impact Resistance | 25 mm diameter hail at 23 m/s | | | |
| Solar Cells | Monocrystalline PERC | | | |
| Tempered Glass | High-transmission tempered anti-reflective | | | |
| Junction Box | IP-67, Multi-Contact (MC4), 3 bypass diodes | | | |
| Weight | 18.7 kg | | | |
| Max. Load | Wind: 2400 Pa, 245 kg/m² front & back | | | |
| Max. Loau | Snow: 5400 Pa, 550 kg/m² front | | | |
| Frame | Class 1 black anodized (highest AAMA rating) | | | |
| Blocking Diode | None | | | |



DEFEDENCES

- 1 Independent Shade Study by CFV Laboratory. 2016.
- 2 SunPower 320 W compared to a Conventional Panel on same sized arrays (260 W, 16% efficient, approx. 1.6 m^2), 0.6%/yr degradation (Leidos technical review 2017).
- 3 Osborne. "SunPower supplying P-Series modules to a 125MW NextEra project." PV-Tech.org. March 2017."
- 4 Measured at Standard Test Conditions (STC): irradiance of 1000 W/m², AM 1.5, and cell temperature 25° C.
- 5 Class C fire rating per IEC 61730.

Designed in USA, assembled in China.

See www.sunpower.com.au/company for more reference information. Specifications included in this datasheet are subject to change without notice.

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FRAME PROFILE



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

(B) Long Side: 32 mm Short Side: 24 mm

Read safety and installation instructions before using this product.





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