



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.



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 25 year product and performance warranty.



25 Year Combined 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.



Premium Aesthetics

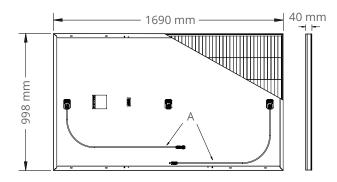
SunPower® Performance Panels with their black frame and black backsheets blend harmoniously into your roof and add elegance to your home.

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)	37.0 V	36.7 V	36.5 V	35.9 V	35.4 V	35.0 V
Rated Current (Impp)	9.06 A	8.99 A	8.93 A	8.92 A	8.90 A	8.88 A
Open-Circuit Voltage (Voc)	44.1 V	43.9 V	43.7 V	43.2 V	43.0 V	42.6 V
Short-Circuit Current (Isc)	9.64 A	9.57 A	9.50 A	9.48 A	9.46 A	9.41 A
Maximum System Voltage	1000 V IEC					
Maximum Series Fuse	15 A					
Power Temp. Coef.	-0.37% / ° C					
Voltage Temp. Coef.	−0.29% / ° C					
Current Temp. Coef.	0.05% / ° C					

Tests And Certifications (Preliminary)				
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. Lodu	Snow: 5400 Pa, 550 kg/m² front			
Frame	Class 1 black anodized (highest AAMA rating)			
Blocking Diode	None			



FRAME PROFILE

(A) Cable Length: 1000 mm +/-15 mm (B) Long Side: 32 mm

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

Read safety and installation instructions before using this product.

REFERENCES:

- 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 m²), 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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