SUNPOWER®





Engineered for Performance



Designed for Reliability

- Robust and flexible cell connection technology. Outstanding reliability.
- Conductive adhesive, proven in the aerospace industry
- Redundant cell to cell connections

Proven Performance



- Named as a Top Performer in all DNV/GL reliability tests
- 15% more power and reduced panel temperature due to unique electrical bussing

SunPower[®] P-Series: P19-335-BLK

SunPower Performance Series Residential Panel

SunPower[®] Performance Series 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 increases power and savings while designing out fragile ribbons and solder bonds on the cells.

High Performance and Lifetime Savings

Up to 35% more energy in the same space over 25 year.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, Backed with Confidence

Performance Series is the most deployed shingled solar panel in the world,³ with proven results. Innovative shingled design eliminates many of the reliability challenges of traditional front contact panels. SunPower stands behind its panels with its industry-leading Complete Confidence Warranty.



25 Year Combined Warranty Protect your investment

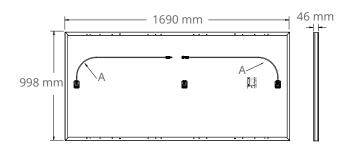


P-Series: P19-335-BLK SunPower® Performance Series Residential Panel

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)	37.1 V	36.8 V	36.5 V	36.2 V	36.1 V	35.9 V
Rated Current (Impp)	9.04 A	8.97 A	8.90 A	8.84 A	8.73 A	8.63 A
Open-Circuit Voltage (Voc)	44.3 V	44.0 V	43.8 V	43.5 V	43.4 V	43.3 V
Short-Circuit Current (lsc)	9.60 A	9.53 A	9.46 A	9.38 A	9.31 A	9.24 A
Power Temp. Coef.	−0.37% / ° C					
Voltage Temp. Coef.	−0.29% / ° C					
Current Temp. Coef.	0.05% / ° C					
Maximum System Voltage	1000 V IEC					
Maximum Series Fuse	15 A					

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			
Ammonia Test	IEC 62716			
Desert Test	10.1109/PVSC.2013.6744437			
Salt Spray Test	IEC 61701 (maximum severity)			
PID Test	Potential-Induced Degradation free: 1000 V			
Available Listings	TUV			

Operating Condition And Mechanical Data				
Temperature	–40° C to +85° C			
Impact Resistance	25 mm diameter hail at 23 m/s			
Appearance	Class A			
Solar Cells	Monocrystalline PERC			
Tempered Glass	High-transmission tempered anti-reflective			
Junction Box	IP-67, MC4, 3 bypass diodes			
Weight	18.7 kg			
Max. Load	Wind: 2400 Pa, 245 kg/m² front & back			
	Snow: 5400 Pa, 550 kg/m² front			
Frame	Class 1 black anodized (highest AAMA rating)			



FRAME PROFILE



(A) Portrait Cable: 1000 mm +/-15 mm(B) Long Side: 32 mmShort Side: 24 mm

Read safety and installation instructions before using this product.

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REFERENCES:

review 2017).

information.

1 Independent Shade Study by CFV Laboratory.

Europe, the U.S., and other countries as well.

project." PV-Tech.org. March 2017.

and cell temperature 25° C. 5 Class C fire rating per IEC 61730.

2 SunPower 335 W compared to a Conventional Panel on same sized arrays

(260 W, 16% efficient, approx. 1.6 m²), 0.6%/yr degradation (Leidos technical

4 Measured at Standard Test Conditions (STC): irradiance of 1000 W/m², AM 1.5,

See www.sunpowercorp.co.uk/company/about-sunpower for more reference

Specifications included in this datasheet are subject to change without notice.

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3 Osborne. "SunPower supplying P-Series modules to a 125MW NextEra