



# SunPower® B-Series Residential Solar Panels | B19-325-BLK

## More than 19% Efficiency

Ideal for roofs where space is at a premium or where future expansion might be needed.

## High Performance

Delivers excellent performance in real-world conditions, such as high temperatures, clouds and low light.<sup>1,2,4</sup>

## Premium Aesthetics

SunPower® sleek black B-Series panels blend harmoniously into your roof. The most elegant choice for your home.



**Maxeon™ Solar Cells: Fundamentally better**  
Engineered for performance, designed for durability.

## Engineered for Peace of Mind

Designed to deliver consistent, trouble-free energy over a very long lifetime.<sup>3,4</sup>

## Designed for Durability

The SunPower Maxeon Solar Cell is the only cell built on a solid copper foundation. Virtually impervious to the corrosion and cracking that degrade conventional panels.<sup>3</sup>

Same excellent durability as E-Series panels.  
#1 Rank in Fraunhofer durability test.<sup>9</sup>  
100% power maintained in Atlas 25+ comprehensive durability test.<sup>10</sup>

## High Performance & Excellent Durability



SPR-B19-325-BLK



## High Efficiency<sup>5</sup>

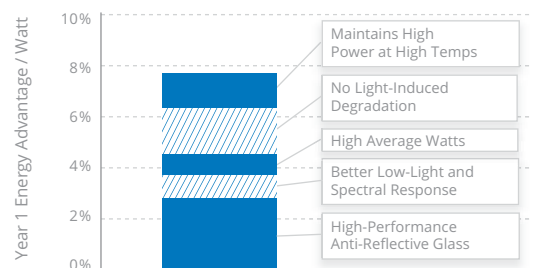
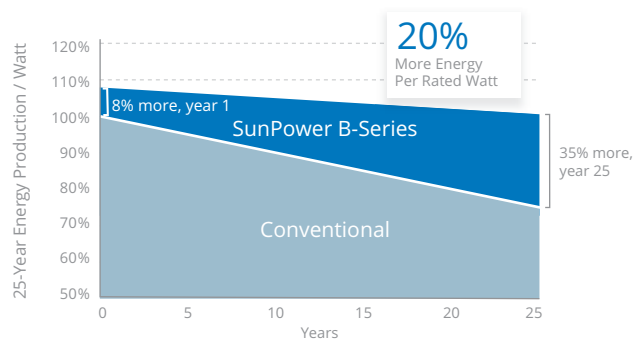
### Generate more energy per square meter

B-Series residential panels convert more sunlight to electricity by producing 31% more power per panel<sup>1</sup> and 60% more energy per square meter over 25 years.<sup>1,2,3</sup>

## High Energy Production<sup>6</sup>

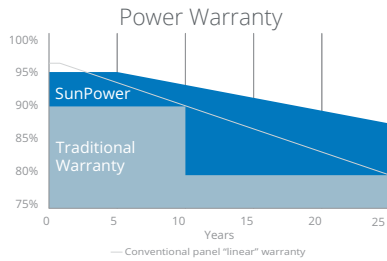
### Produce more energy per rated watt

High year-one performance delivers 7–9% more energy per rated watt.<sup>2</sup> This advantage increases over time, producing 20% more energy over the first 25 years to meet your needs.<sup>3</sup>

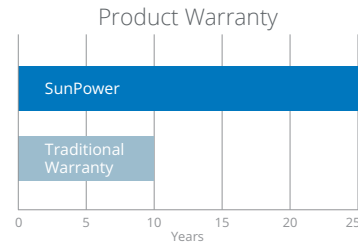


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## SunPower Offers The Best Combined Power And Product Warranty



More guaranteed power: 95% for first 5 years, -0.4%/yr. to year 25<sup>7</sup>



Combined Power and Product defect 25-year coverage<sup>8</sup>

### Electrical Data

Electrical Data	
SPR-B19-325-BLK	
Nominal Power (P <sub>nom</sub> ) <sup>11</sup>	325 W
Power Tolerance	+5/-0%
Avg. Panel Efficiency <sup>12</sup>	19.9%
Rated Voltage (V <sub>mpp</sub> )	57.3 V
Rated Current (I <sub>mpp</sub> )	5.67 A
Open-Circuit Voltage (V <sub>oc</sub> )	67.6 V
Short-Circuit Current (I <sub>sc</sub> )	6.05 A
Max. System Voltage	1000 V IEC
Maximum Series Fuse	15 A
Power Temp Coef.	-0.29% / °C
Voltage Temp Coef.	-167.4 mV / °C
Current Temp Coef.	2.9 mA / °C

### Tests And Certifications

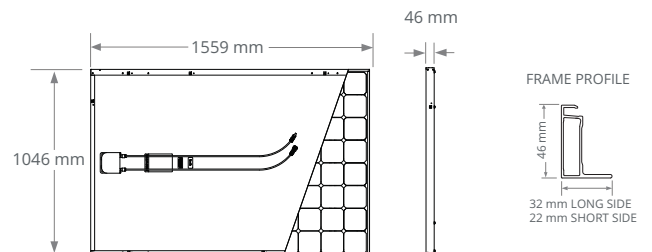
Standard Tests <sup>13</sup>	IEC 61215, IEC 61730
Quality Certs	ISO 9001:2008, ISO 14001:2004
EHS Compliance	RoHS, OHSAS 18001:2007, lead free, PV Cycle, REACH SVHC-163
Sustainability	Cradle to Cradle Certified™ Silver
Ammonia Test	IEC 62716
Desert Test	10.1109/PVSC.2013.6744437
Salt Spray Test	IEC 61701 (maximum severity)
PID Test	Potential-Induced Degradation free: 1000 V <sup>9</sup>
Available Listings	TUV, MCS

### 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	96 Monocrystalline Maxeon Gen III
Tempered Glass	High-transmission tempered anti-reflective
Junction Box	IP-65 Rated, MC4
Weight	18.6 kg
Max. Load	Wind: 2400 Pa, 244 kg/m <sup>2</sup> front & back Snow: 5400 Pa, 550 kg/m <sup>2</sup> front
Frame	Class 1 black anodised (highest AAMA rating)

#### REFERENCES:

- All comparisons are SPR-E20-327 vs. a representative conventional panel: 250 W, approx. 1.6 m<sup>2</sup>, 15.3% efficiency.
- Typically 7-9% more energy per watt, BEW/DNV Engineering "SunPower Yield Report," Jan 2013.
- SunPower 0.25%/yr degradation vs. 1.0%/yr conv. panel. Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, Feb 2013; Jordan, Dirk "SunPower Test Report," NREL, Q1-2015.
- "SunPower Module 40-Year Useful Life" SunPower white paper, May 2015. Useful life is 99 out of 100 panels operating at more than 70% of rated power.
- Second highest, after SunPower X-Series, of over 3,200 silicon solar panels, Photon Module Survey, Feb 2014.
- 8% more energy than the average of the top 10 panel companies tested in 2012 (151 panels, 102 companies), Photon International, Feb 2013.
- Compared with the top 15 manufacturers. SunPower Warranty Review, May 2015.
- Some restrictions and exclusions may apply. See warranty for details..
- 5 of top 8 panel manufacturers tested in 2013 report, 3 additional panels in 2014. Ferrara, C., et al. "Fraunhofer PV Durability Initiative for Solar Modules: Part 2". Photovoltaics International, 2014.
- Compared with the non-stress-tested control panel. Atlas 25+ Durability test report, Feb 2013.
- Standard Test Conditions (1000 W/m<sup>2</sup> irradiance, AM 1.5, 25° C). NREL calibration Standard: SOMS current, LACCS FF and Voltage.
- Based on average of measured power values during production.
- Type 2 fire rating per UL1703:2013, Class C fire rating per UL1703:2002.



Please read the safety and installation guide.

See [www.sunpower.com/facts](http://www.sunpower.com/facts) for more reference information.  
For more details, see extended datasheet: [www.sunpowercorp.co.uk/datasheets](http://www.sunpowercorp.co.uk/datasheets).

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