More than 21% Efficiency
Ideal for roofs where space is at a premium or where future expansion might be needed.

Maximum Performance
Designed to deliver the most energy in demanding real-world conditions, in partial shade and hot rooftop temperatures.¹,²,⁴

Premium Aesthetics
SunPower® Signature™ Black X-Series panels blend harmoniously into your roof. The most elegant choice for your home.

Engineered for Peace of Mind
Designed to deliver consistent, trouble-free energy over a very long lifetime.³,⁴

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.⁴

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

Unmatched Performance, Reliability & Aesthetics

Highest Efficiency⁵
Generate more energy per square foot
X-Series residential panels convert more sunlight to electricity by producing 38% more power per panel¹ and 70% more energy per square foot over 25 years.¹,²,³

Highest Energy Production⁶
Produce more energy per rated watt
High year-one performance delivers 8–10% more energy per rated watt.² This advantage increases over time, producing 21% more energy over the first 25 years to meet your needs.³

Same excellent durability as E-Series panels.
#1 Rank in Fraunhofer durability test.⁹
100% power maintained in Atlas 25+ comprehensive durability test.¹⁰
SunPower® X-Series Residential Solar Panels

**Electrical Data**

<table>
<thead>
<tr>
<th>SPR-X21-335-BLK</th>
<th>SPR-X21-345</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power (Pnom)(^1)</td>
<td>335 W</td>
</tr>
<tr>
<td>Power Tolerance</td>
<td>+5/-0%</td>
</tr>
<tr>
<td>Avg. Panel Efficiency(^2)</td>
<td>21.0%</td>
</tr>
<tr>
<td>Rated Voltage (Vmp)</td>
<td>57.3 V</td>
</tr>
<tr>
<td>Rated Current (Imp)</td>
<td>5.85 A</td>
</tr>
<tr>
<td>Open-Circuit Voltage (Voc)</td>
<td>67.9 V</td>
</tr>
<tr>
<td>Short-Circuit Current (Isc)</td>
<td>6.23 A</td>
</tr>
<tr>
<td>Max. System Voltage</td>
<td>600 V UL &amp; 1000 V IEC</td>
</tr>
<tr>
<td>Maximum Series Fuse</td>
<td>15 A</td>
</tr>
<tr>
<td>Voltage Temp Coef.</td>
<td>-16.74 mV / °C</td>
</tr>
<tr>
<td>Current Temp Coef.</td>
<td>2.9 mA / °C</td>
</tr>
</tbody>
</table>

**Power Warranty**

- SunPower: 95% for the first 5 years, ~0.4%/yr. to year 25.
- Traditional Warranty: 75% to 100%.

**Product Warranty**

- SunPower: 90% for the first 5 years, ~0.3%/yr. to year 25.
- Traditional Warranty: 75% to 100%.

**Combined Power and Product Warranty defect 25-year coverage.**

**Tests And Certifications**

- Standard Tests\(^3\): UL1703 (Type 2 Fire Rating), IEC 61215, IEC 61730.
- EHS Compliance: RoHS, OHSAS 18001:2007, lead free, REACH/SVHC-163, PV Cycle.
- Sustainability: Cradle to Cradle CertifiedTM Silver (eligible for LEED points)\(^4\).
- 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\(^9\).
- Available Listings: UL, TUV, JET, MCS, CSA, FSEC, CEC.

**Operating Condition And Mechanical Data**

- Temperature: -40°F to +185°F (-40°C to +85°C).
- Impact Resistance: 1 inch (25 mm) diameter hail at 52 mph (23 m/s).
- Appearance: Class A+.
- Solar Cells: 96 Monocrystalline Maxeon Gen III.
- Tempered Glass: High-transmission tempered anti-reflective.
- Junction Box: IP-65, MC4 compatible.
- Weight: 41 lbs (18.6 kg).
- Max. Load:
  - G5 Frame: Wind: 62 psf, 3000 Pa front & back
  - Snow: 125 psf, 6000 Pa front
  - G3 Frame: Wind: 50 psf, 2400 Pa front & back
  - Snow: 112 psf, 5400 Pa front.
- Frame: Class 1 black anodized (highest AAMA rating).

**REFERENCES:**

1. All comparisons are SPR-X21-345 vs. a representative conventional panel: 250 W, approx. 1.6 m², 15.3% efficiency.
2. Typically 8-10% more energy per Watt, BEW/DNV Engineering “SunPower Yield Report,” Jan 2013.
4. “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.
6. “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.
8. Some restrictions and exclusions may apply. See warranty for details.

See www.sunpower.com/facts for more reference information.

For more details, see extended datasheet: www.sunpower.com/datasheets.