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.\(^3\)

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

Unmatched Performance, Reliability & Aesthetics

Highest Efficiency\(^5\)
Generate more energy per square foot
X-Series residential panels convert more sunlight to electricity by producing 38% more power per panel\(^1\) and 70% more energy per square foot over 25 years.\(^1,2,3\)

Highest Energy Production\(^6\)
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.\(^3\)

Maintains High Power at High Temps
No Light-Induced Degradation
High Average Watts
Better Low-Light and Spectral Response
High-Performance Anti-Reflective Glass
**SunPower® X-Series Residential Solar Panels | X21-335-BLK | X21-345**

**Tests And Certifications**
- Standard Tests: UL1703 (Type 2 Fire Rating), IEC 61215, IEC 61730
- EHS Compliance: RoHS, OHAS 18001:2007, lead free, REACH SVHC-163, PV Cycle
- Sustainability: Cradle to Cradle Certified™ Silver (eligible for LEED points)^14
- 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)

**Electrical Data**
- Nominal Power (Pnom)^1:
  - SPR-X21-335-BLK: 335 W
  - SPR-X21-345: 345 W
- Power Tolerance: +5/-0% for both
- Avg. Panel Efficiency^2:
  - SPR-X21-335-BLK: 21.0%
  - SPR-X21-345: 21.5%
- Rated Voltage (Vmpp):
  - SPR-X21-335-BLK: 57.3 V
  - SPR-X21-345: 57.3 V
- Rated Current (Impp):
  - SPR-X21-335-BLK: 5.85 A
  - SPR-X21-345: 6.02 A
- Open-Circuit Voltage (Voc):
  - SPR-X21-335-BLK: 67.9 V
  - SPR-X21-345: 68.2 V
- Short-Circuit Current (Isc):
  - SPR-X21-335-BLK: 6.23 A
  - SPR-X21-345: 6.39 A
- Max. System Voltage: 600 V UL & 1000 V IEC
- Maximum Series Fuse: 15 A
- Voltage Temp Coef.:
  - SPR-X21-335-BLK: –0.29% / °C
  - SPR-X21-345: –0.29% / °C
- Current Temp Coef.:
  - SPR-X21-335-BLK: 2.9 mA / °C
  - SPR-X21-345: 2.9 mA / °C

**Combined Power and Product defect 25-year coverage^8**

**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. 1% more energy than E-Series panels, 8% more energy than the average of the top 10 panel companies tested in 2012 (151 panels, 102 companies), Photon International, Feb 2013.
8. Some restrictions and exclusions may apply. See warranty for details.
11. Based on average of measured power values during production.
12. Type 2 fire rating per UL1703:2013, Class C fire rating per UL1703:2002.

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