More than 20% Efficiency
Captures more sunlight and generates more power than conventional panels.

High Performance
Delivers excellent performance in real-world conditions, such as high temperatures, clouds and low light.¹

Utility Grade
Optimized to maximize returns, the E-Series panel is a bankable solution for large-scale power plants.

Maxeon® Solar Cells: Fundamentally better
Engineered for performance, designed for reliability.

Engineered for Peace of Mind
Designed to deliver consistent, trouble-free energy over a very long lifetime.²

Designed for Reliability
The SunPower Maxeon solar cell is the only cell built on a solid metal foundation. Virtually impervious to the corrosion and cracking that degrade conventional panels.

#1 Rank in Fraunhofer durability test.³

High Efficiency
Generate more energy per square foot
More energy to power your operations. E-Series residential systems convert more sunlight to electricity by producing 31% more energy in the first year. This advantage increases over time, producing 45% more energy over the first 25 years to meet your needs.¹

Best Reliability, Best Warranty
A better warranty starts with a better product. Proven performance backs up our industry-best coverage, including out warranted 0.25% per year degradation rate.⁴

### Electrical Data

<table>
<thead>
<tr>
<th></th>
<th>SPR-E20-435-COM</th>
<th>SPR-E19-410-COM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power (Pnom)</td>
<td>435 W</td>
<td>410 W</td>
</tr>
<tr>
<td>Power Tolerance</td>
<td>+/- 5%</td>
<td>+/- 5%</td>
</tr>
<tr>
<td>Panel Efficiency</td>
<td>20.3%</td>
<td>19.1%</td>
</tr>
<tr>
<td>Rated Voltage (Vmp)</td>
<td>72.9 V</td>
<td>72.9 V</td>
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<tr>
<td>Rated Current (Imp)</td>
<td>5.97 A</td>
<td>5.62 A</td>
</tr>
<tr>
<td>Open-Circuit Voltage (Voc)</td>
<td>85.6 V</td>
<td>85.3 V</td>
</tr>
<tr>
<td>Short-Circuit Current (Isc)</td>
<td>6.43 A</td>
<td>6.01 A</td>
</tr>
<tr>
<td>Max. System Voltage</td>
<td>1500 V UL &amp; 1500 V IEC</td>
<td></td>
</tr>
<tr>
<td>Maximum Series Fuse</td>
<td>15 A</td>
<td></td>
</tr>
<tr>
<td>Power Temp Coef.</td>
<td>-0.35% / °C</td>
<td></td>
</tr>
<tr>
<td>Voltage Temp Coef.</td>
<td>-235.5 mV / °C</td>
<td></td>
</tr>
<tr>
<td>Current Temp Coef.</td>
<td>2.6 mA / °C</td>
<td></td>
</tr>
</tbody>
</table>

### 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 B
Solar Cells: 128 Monocrystalline Maxeon Gen II
Tempered Glass: High-transmission tempered anti-reflective
Junction Box: IP-65, 1230 mm cables / MC4 compatible
Weight: 56 lbs (25.4 kg)

Max. Load:
- G6 Frame: Wind: 50 psf, 2400 Pa front & back
- Snow: 50 psf, 2400 Pa front
- G4 Frame: Wind: 50 psf, 2400 Pa front & back
- Snow: 112 psf, 5400 Pa front
Frame: Class 2 silver anodized; stacking pins

### Tests And Certifications

- **Standard Tests**: 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 Certified™ Silver (contributes to LEED categories)
- **Ammonia Test**: IEC 62716
- **Desert Test**: 10.1109/PVSC.2013.6744437
- **Salt Spray Test**: IEC 61701 (maximum severity)
- **PID Test**: 1000V; IEC62804, PVEL 600h duration
- **Available Listings**: UL, TUV, MCS, CSA, FSEC

### References:

1. SunPower 327W compared to a Conventional Panel on same sized arrays (260W, 16% efficient, approx. 1.6 m²), 3% more energy per watt (based on 3pty module characterization and PVSim), 0.75%/yr slower degradation (Campeau, Z. et al. “SunPower Module Degradation Rate,” SunPower white paper, 2013).
2. “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. Type 2 fire rating per UL1703.2013, Class C fire rating per UL1703.2002.

Please read the safety and installation guide.