PERFORMANCE 3 BLK | 370–390

POWER RANGE: 370 – 390 W

With a sleek black design that elegantly blends into any roof, the third-generation SunPower Performance 3 panel combines enhanced warranty terms with an expanded active cell area that delivers increased power and efficiency over previous generation panels.

Backed by an industry-leading warranty and an estimated 35-year useful life, SunPower Performance panels wrap conventional front contact cells with 35 years of materials, engineering and manufacturing expertise to mitigate the reliability challenges of Conventional Panel design.

**Performance Benefits**

- Smaller cells stay cooler when shaded, extending panel life
- Advanced encapsulant minimizes degradation from environmental exposure
- Conductive adhesive defends against daily temperature swings
- Redundant cell connections create flexible paths for continuous electricity flow

**Durability that Translates to More Energy**

Engineered to stand up to environmental stresses such as shading, daily temperature swings and high humidity, the SunPower Performance 3 panel delivers up to 7% more energy in the same space over 25 years compared to Conventional mono PERC Panels.

**A Track Record of Innovation Leadership**

SunPower Performance panels represent the most deployed shingled cell panel in the industry—innovation protected by a growing portfolio of patents worldwide.

**A Better Product. A Better Warranty.**

Each SunPower Performance panel is manufactured with the confidence to deliver more energy and reliability over time—and backed for 25 years by the SunPower Complete Confidence Panel Warranty.

- Year 1 Minimum Warranted Power Output: 98.0%
- Maximum Annual Degradation: 0.45%
- Year 25 Minimum Warranted Power Output: 87.2%
PERFORMANCE 3 BLK  POWER: 370 – 390 W

**Electrical Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>SPR-P3-390-BLK</th>
<th>SPR-P3-385-BLK</th>
<th>SPR-P3-380-BLK</th>
<th>SPR-P3-375-BLK</th>
<th>SPR-P3-370-BLK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power (Pnom)</td>
<td>390 W</td>
<td>385 W</td>
<td>380 W</td>
<td>375 W</td>
<td>370 W</td>
</tr>
<tr>
<td>Power Tolerance</td>
<td>+5/0%</td>
<td>+5/0%</td>
<td>+5/0%</td>
<td>+5/0%</td>
<td>+5/0%</td>
</tr>
<tr>
<td>Efficiency</td>
<td>19.9%</td>
<td>19.6%</td>
<td>19.4%</td>
<td>19.1%</td>
<td>18.9%</td>
</tr>
<tr>
<td>Rated Voltage (Vmp)</td>
<td>36.7 V</td>
<td>36.3 V</td>
<td>35.9 V</td>
<td>35.5 V</td>
<td>35.1 V</td>
</tr>
<tr>
<td>Rated Current (Imp)</td>
<td>10.63 A</td>
<td>10.61 A</td>
<td>10.59 A</td>
<td>10.57 A</td>
<td>10.55 A</td>
</tr>
<tr>
<td>Open-Circuit Voltage (Voc)(+/- 3%)</td>
<td>44.0 V</td>
<td>43.7 V</td>
<td>43.4 V</td>
<td>43.0 V</td>
<td>42.6 V</td>
</tr>
<tr>
<td>Short-Circuit Current (Isc)(+/- 3%)</td>
<td>11.35 A</td>
<td>11.31 A</td>
<td>11.28 A</td>
<td>11.26 A</td>
<td>11.24 A</td>
</tr>
<tr>
<td>Maximum System Voltage</td>
<td>1000 V IEC</td>
<td>1000 V IEC</td>
<td>1000 V IEC</td>
<td>1000 V IEC</td>
<td>1000 V IEC</td>
</tr>
<tr>
<td>Maximum Series Fuse</td>
<td>20 A</td>
<td>20 A</td>
<td>20 A</td>
<td>20 A</td>
<td>20 A</td>
</tr>
<tr>
<td>Power Temp. Coef.</td>
<td>0.34% / °C</td>
<td>0.34% / °C</td>
<td>0.34% / °C</td>
<td>0.34% / °C</td>
<td>0.34% / °C</td>
</tr>
<tr>
<td>Voltage Temp. Coef.</td>
<td>0.28% / °C</td>
<td>0.28% / °C</td>
<td>0.28% / °C</td>
<td>0.28% / °C</td>
<td>0.28% / °C</td>
</tr>
<tr>
<td>Current Temp. Coef.</td>
<td>0.06% / °C</td>
<td>0.06% / °C</td>
<td>0.06% / °C</td>
<td>0.06% / °C</td>
<td>0.06% / °C</td>
</tr>
</tbody>
</table>

**Tests And Certifications**

- Standard Tests: IEC 61215, IEC 61730
- EHS Compliance: ISO 45001-2018, Recycling Scheme
- Ammonia Test: IEC 62716
- Dust and Sand: MIL-STD-810G
- Salt Spray Test: IEC 61701 (maximum severity)
- PID Test: IEC 62804
- Available Listings: TÜV

**Operating Condition And Mechanical Data**

- Temperature: −40°C to +85°C
- Impact Resistance: 25 mm diameter hail at 23 m/s
- Solar Cells: Monocrystalline PERC
- Tempered Glass: High-transmission tempered anti-reflective
- Junction Box: IP-67, Stäubli MC4, 3 bypass diodes
- Weight: 21.0 kg
- Max. Load: Wind: 2400 Pa, 245 kg/m² front & back
  Snow: 5400 Pa, 550 kg/m² front
- Frame: Class 1 black anodized

**Performance**


2 SunPower 390 W, 19.9% efficient, compared to a Conventional Panel on same-sized arrays (310 W mono PERC, 19% efficient, approx. 1.64 m²), 1% more energy per watt (based on PVSim runs for avg EU climate), 0.1%/yr slower degradation rate (Based on Oct. 2020 review of warranties on manufacturer websites for top 20 manufacturers per IHS 2020).


5 Measured at Standard Test Conditions (STC): irradiance of 1000 W/m², AM 1.5, and cell temperature 25°C.

6 Class C fire rating per IEC 61730.

Designed in U.S.A. by SunPower Corporation
Assembled in China

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

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Please read the safety and installation instructions.
Visit www.sunpower.maceon.com/int/PVInstallGuideIEC
Paper version can be requested through techsupport.ROW@maxeon.com

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FROM MAXEON SOLAR TECHNOLOGIES

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