



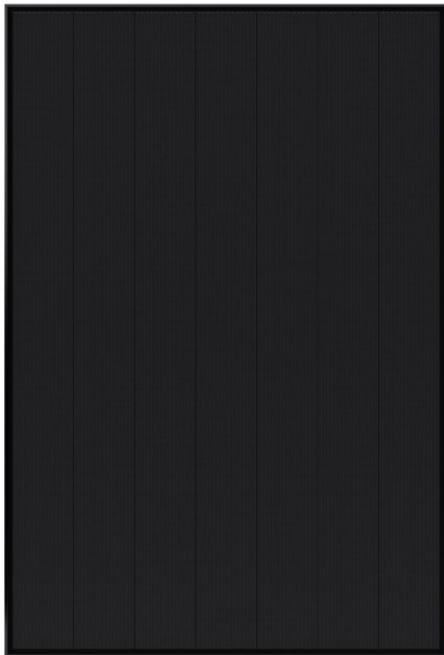
Shingled Cell



Black Backsheet
Black Frame



Residential



PERFORMANCE 3 BLK

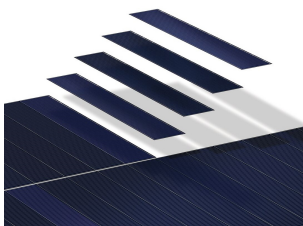
POWER RANGE: 370-390 W

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,¹ 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.

Engineered for Performance

- Smaller cells stay cooler when shaded, extending panel life⁴
- Proprietary 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.²

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.³



4+ GW
Deployed



60+
Countries



90+
Patents

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.

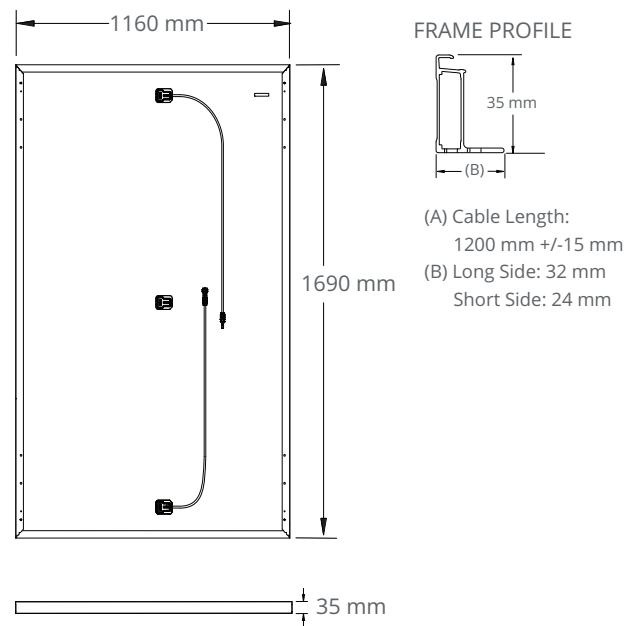
- Year 1 Minimum Warranted Power Output 98.0%
- Maximum Annual Degradation 0.45%
- Year 25 Minimum Warranted Power Output 87.2%

PERFORMANCE 3 BLK POWER: 390-370 W

| Electrical Data | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|
| Model | SPR-P3-390-BLK | SPR-P3-385-BLK | SPR-P3-380-BLK | SPR-P3-375-BLK | SPR-P3-370-BLK |
| Nominal Power (P _{nom}) ⁵ | 390 W | 385 W | 380 W | 375 W | 370 W |
| Power Tolerance | +5/-0% | +5/-0% | +5/-0% | +5/-0% | +5/-0% |
| Efficiency | 19.9% | 19.6% | 19.4% | 19.1% | 18.9% |
| Rated Voltage (V _{mpp}) | 36.7 V | 36.3 V | 35.9 V | 35.5 V | 35.1 V |
| Rated Current (I _{mpp}) | 10.63 A | 10.61 A | 10.59 A | 10.57 A | 10.55 A |
| Open-Circuit Voltage (V _{oc}) (+/-3%) | 44.0 V | 43.7 V | 43.4 V | 42.9 V | 42.3 V |
| Short-Circuit Current (I _{sc}) (+/-3%) | 11.35 A | 11.31 A | 11.28 A | 11.26 A | 11.24 A |
| Maximum System Voltage | 1000 V IEC | | | | |
| Maximum Series Fuse | 18 A | | | | |
| Power Temp. Coef. | -0.34% / °C | | | | |
| Voltage Temp. Coef. | -0.28% / °C | | | | |
| Current Temp. Coef. | 0.06% / °C | | | | |

| Tests And Certifications | |
|-----------------------------|------------------------------------|
| Standard Tests ⁶ | IEC 61215, IEC 61730 |
| Quality Certs | ISO 9001:2008, ISO 14001:2004 |
| EHS Compliance | OHSAS 18001:2007, Recycling Scheme |
| Ammonia Test | IEC 62716 |
| Desert Test | MIL-STD-810G |
| Salt Spray Test | IEC 61701 (maximum severity) |
| PID Test | IEC 62804 |
| Available Listings | TUV |

| 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/m ² front & back Snow: 5400 Pa, 550 kg/m ² front |
| Frame | Class 1 black anodized |



1 Performance panels expected useful life of 35 years. Source: "SunPower P-Series Technology Technical Review," Leidos Independent Engineer Report. 2016.

2 SunPower 390 W, 20.1% efficient, compared to a Conventional Panel on same-sized arrays (310 W mono PERC, 19% efficient, approx. 1.64 m²), 0.25%/yr slower degradation rate (Jordan, et. al. Robust PV Degradation Methodology and Application. PVSC 2018).

3 Osborne. "SunPower supplying P-Series modules to a 125MW NextEra project." PV-Tech.org. March 2017.

4 SunPower Performance Series – Thermal Performance, Z.Campeau 2016.

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 guide.

SUNPOWER
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