SUNPOWER | PERFORMANCE

Making the conventional, exceptional









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.

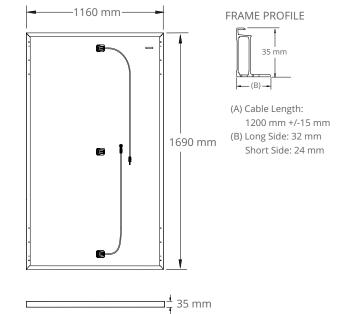
• Year 1 Minimum Warranted Power Output	98.0%
Maximum Annual Degradation	0.45%
Year 25 Minimum Warranted Power Output	87.2%

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 (Pnom) 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 (Vmpp)	36.7 V	36.3 V	35.9 V	35.5 V	35.1 V
Rated Current (Impp)	10.63 A	10.61 A	10.59 A	10.57 A	10.55 A
Open-Circuit Voltage (Voc) (+/-3%)	44.0 V	43.7 V	43.4 V	42.9 V	42.3 V
Short-Circuit Current (Isc) (+/-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/m² front & back			
	Snow: 5400 Pa, 550 kg/m² front			
Frame	Class 1 black anodized			



Please read the safety and installation guide.

- 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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