## SUNPOWER | PERFORMANCE

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### PERFORMANCE 3 AC

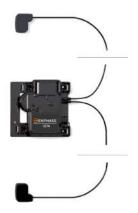
Power Range: 370 - 385 W

The new SunPower Performance 3 AC Modules combine enhanced full black shingling technology with the world's most advanced inverter technology. The result is an elegant, optimized solution for any roof.

Backed by an industry-leading warranty and an estimated 35-year useful life,<sup>1</sup> 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.

# Factory-integrated Microinverter (MI)

- Integrated AC module
- 25-Year limited product warranty covered by Enphase
- Engineered by Enphase for SunPower AC modules



#### **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.<sup>2</sup>

#### 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.<sup>3</sup>



4+ GW Deployed



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
 Maximum Annual Degradation
 Year 25 Minimum Warranted Power Output
 87.2%

#### PERFORMANCE 3 AC Power: 370 - 385 W

AC Electrical Data			
Inverter Model: IQ 7A	@230 VAC		
Peak Output Power	366 VA		
Max. Continuous Output Power	349 VA		
Nom. (L–N) Voltage/Range	219 – 264 V		
Max. Continuous Output Current	1.52 A		
Max. Units per 20 A (L–N) Branch Circuit	10		
Weighted Efficiency <sup>4</sup>	96.5%		
Nom. Frequency	50 Hz		
Extended Frequency Range	45-55 Hz		
AC Short Circuit Fault Current Over 3 Cycles	5.8 A rms		
Overvoltage Class AC Port	III		
AC Port Backfeed Current	18 mA		
Power Factor Setting	1.0		
Power Factor (adjustable)	0.8 lead. / 0.8 lag.		

DC Power Data				
	SPR-P3-385-BLK-	SPR-P3-380-BLK-	SPR-P3-375-BLK-	SPR-P3-370-BLK-
	E3-AC	E3-AC	E3-AC	E3-AC
Nom. Power <sup>5</sup> (Pnom)	385 W	380 W	375 W	370 W
Power Tol.	+5/0%	+5/0%	+5/0%	+5/0%
Module Efficiency	19.6%	19.4%	19.1%	18.9%
Temp. Coef. (Power)	−0.34%/°C			
Shade Tol.	Integrat	ed module-level	max. power poin	t tracking

Mechanical Data		
Solar Cells	Monocrystalline PERC	
Front Glass	High-transmission tempered glass with anti-reflective coating	
Junction Box	IP-68, PV4S, 3 bypass diodes	
Environmental Rating	Microinverter Outdoor rated - IP67 (UL: NEMA type 6)	
Frame	Class 1 black anodized	
Weight	22.2 kg	

- 1 Performance panels expected useful life of 35 years. Source: "SunPower P-Series Technology Technical Review," Leidos Independent Engineer Report. 2016.
- 2 SunPower 385 W, 19.6% efficient, connected to an IQ7A, 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) connected to a String Inverter.
- 3 Based on shipments as of Q2-2020.
- 4 Tested per EN 50530 (EU).
- 5 Measured at Standard Test Conditions (STC): irradiance of 1000 W/m², AM 1.5, and cell temperature  $25^{\circ}$  C.
- 6 Safety factor 1.5 included.
- $7\,\mathrm{AC}$  modules shall be connected to Enphase Monitoring hardware (ENVOY) to enable Enphase product warranty
- 8 Refer to DC module, Class C fire rating per IEC 61730.

Designed in U.S.A. Assembled in China

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

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Tested Operating Conditions		
Operating Temp.	−40°C to +60°C	
Max. Ambient Temp.	50°C	
Relative Humidity	4% to 100% (Condensing)	
Max. Altitude	2000 m	
Max. Test Load	Wind: 2400 Pa, 245 kg/m² back Snow: 5400 Pa, 550 kg/m² front	
Design Load <sup>6</sup>	Wind: 1600 Pa, 163 kg/m² back Snow: 3600 Pa, 367 kg/m² front	
Impact Resistance	25 mm diameter hail at 23 m/s	
Microinverter	Class II double-insulated, corrosion	
enclosure	resistant polymeric enclosure	

Warranties, Certifications, and Compliance		
Warranties	<ul><li>25-year limited power warranty</li><li>25-year limited product warranty</li></ul>	
Microinverter Warranty	<ul> <li>25-year limited product warranty covered by Enphase warranty<sup>7</sup></li> </ul>	
Certifications and Compliance	• IEC 61215, 61730 <sup>8</sup> • IEC 62109-1, 62109-2 • IEC 61000-6-3 • AS4777.2, RCM • IEC/ EN 50549-1:2019, G98/G99 • VDE-AR-N-4105	
Quality Management Certs	ISO 9001:2004, ISO 14001:2008	
PID Test	1000 V: IEC 62804	
Available listing	TUV <sup>8</sup> , EnTest	
EHS Compliance	OHSAS 18001:2007, Recycling Scheme	

