



Shingled Cell



AC Module



Black Backsheet  
Black Frame



Residential



## PERFORMANCE 3 AC

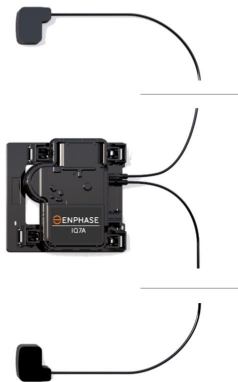
Power Range: 370 – 385 W

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.<sup>1</sup>

### 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



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 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- E3-AC	SPR-P3-380-BLK- E3-AC	SPR-P3-375-BLK- E3-AC	SPR-P3-370-BLK- E3-AC
Nom. Power <sup>5</sup> (P <sub>nom</sub> )	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.	Integrated module-level max. power point 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

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/m <sup>2</sup> back Snow: 5400 Pa, 550 kg/m <sup>2</sup> front
Design Load <sup>6</sup>	Wind: 1600 Pa, 163 kg/m <sup>2</sup> back Snow: 3600 Pa, 367 kg/m <sup>2</sup> front
Impact Resistance	25 mm diameter hail at 23 m/s
Microinverter enclosure	Class II double-insulated, corrosion resistant polymeric enclosure

Warranties, Certifications, and Compliance	
Warranties	<ul style="list-style-type: none"> <li>• 25-year limited power warranty</li> <li>• 25-year limited product warranty</li> </ul>
Microinverter Warranty	<ul style="list-style-type: none"> <li>• 25-year limited product warranty covered by Enphase warranty<sup>7</sup></li> </ul>
Certifications and Compliance	<ul style="list-style-type: none"> <li>• IEC 61215, 61730<sup>8</sup></li> <li>• IEC 62109-1, 62109-2</li> <li>• IEC 61000-6-3</li> <li>• AS4777.2, RCM</li> <li>• IEC/ EN 50549-1:2019, G98/G99</li> <li>• VDE-AR-N-4105</li> </ul>
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

- 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 m<sup>2</sup>), 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.
- 4 Tested per EN 50530 (EU).
- 5 Measured at Standard Test Conditions (STC): irradiance of 1000 W/m<sup>2</sup>, AM 1.5, and cell temperature 25° C.
- 6 Safety factor 1.5 included.
- 7 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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