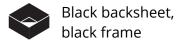
SPR-P6-XXX-BLK-E9-AC

PERFORMANCE 6 AC SOLAR PANEL

405-410 W | Up to 20.9% Efficient



Factory-integrated **AC** microinverter



Enhanced Power Density

With high efficiency, LID-resistant solar cells (G12, 210mm), a lower temperature coefficient, and front-side conductive wires that support increased current collection, SunPower Performance panels are uniquely engineered to deliver more lifetime energy over standard solar panels.

Proven Reliability

A proprietary shingled-cell design maximises durability in all types of weather conditions—including reinforced cell connections that withstand the stresses of daily temperature swings, redundant electrical paths that alleviate the impact of cell cracks. Each panel's microinverter enables independent panel operation to mitigate the impact of shade while improving system performance.



SunPower Complete Confidence Warranty

Each SunPower Performance panel is manufactured with the absolute confidence to deliver more energy and greater reliability over time and backed by one of the industry's most comprehensive warranties.

Product and power coverage 25 / 25 Years 98.0% Year 1 minimum warranted output

Maximum annual degradation 0.45%

Microinverter limited product warranty 25 Years

covered by Enphase



PERFORMANCE 6 AC POWER: 405-410 W | EFFICIENCY: Up to 20.9%

AC Electrical Data		
Inverter Model: IQ8MC	@230 VAC	
Peak Output Power	330 VA	
Max. Continuous Output Power	325 VA	
Nom. (L-N) Voltage/Range	184 – 276 V	
Max. Continuous Output Current	1.43 A	
Max. Units per 20 A (L–N) Branch Circuit	11	
Weighted Efficiency ¹	96.5%	
Nom. Frequency	50 Hz	
Extended Frequency Range	45-55 Hz	
Total Harmonic Distortion	<5%	
Overvoltage Class AC Port	III	
Night-time Power Loss	50 mW	
Power Factor Setting	1.0	
Power Factor (adjustable)	0.8 lead. / 0.8 lag.	

	DC Power Data	
	SPR-P6-410-BLK-E9-AC	SPR-P6-405-BLK-E9-AC
Nom. Power ² (Pnom)	410 W	405 W
Power Tol.	+3/0%	+3/0%
Module Efficiency	20.9%	20.6%
Temp. Coef. (Power)	−0.34%/°C	
Shade Tol.	Integrated module-level ma	x. power point tracking

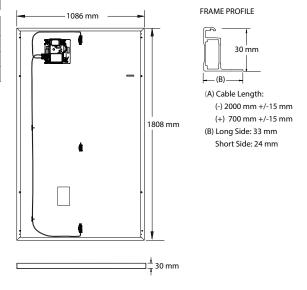
Mechanical Data		
Solar Cells	Monocrystalline PERC	
Tempered Glass	High-transmission tempered anti-reflective	
Environmental Rating	Microinverter Outdoor rated - IP67	
Frame	Black anodized aluminum alloy	
Weight	22.1 kg	

Packaging Configuration		
Number of modules per pallet	35	
Number of pallets per 40ft HQ container	24	
Number of modules per container	840	



Tested Operating Conditions		
Operating Temp.	-40°C to +65°C	
Max. Ambient Temp.	50°C	
Relative Humidity	4% to 100% (Condensing)	
Max. Altitude	2000 m	
Max. Load ³	Wind: 2400 Pa, 244 kg/m² back	
	Snow: 5400 Pa, 550 kg/m² 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		
Panel Warranties	 25-year limited power warranty 25-year limited product warranty	
Microinverter Warranty	 25-year limited product warranty covered by Enphase warranty⁴ 	
Certifications and Compliance	• IEC 61215, 61730 ⁵ • IEC 62109-1, 62109-2 • IEC 61000-3-2, 61000-3-3, 61000-6-2, 61000-6-3, IEC 50065-1, 50065-2-2, EN55011 ⁶ • IEC/ EN 50549-1:2019	
Quality Management Certs	ISO 9001:2015, ISO 14001:2015	
PID Test	1000 V: IEC 62804	
LeTID Test	TÜV 2 PfG 2689 7 (LeTID Detection)	
Available listing	TUV⁵, EnTest	
Green Building Certification contribution	Panels can contribute additional points towards LEED and BREEAM certifications	
EHS Compliance	ISO 45001-2018, Recycling Scheme	





Please read the safety and installation instructions.

Visit www.sunpower.maxeon.com/int/InstallGuideACModules
Paper version can be requested through
techsupport.ROW@maxeon.com

1 Tested per EN 50530 (EU).

2 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25°C). NREL calibration standard: SOMS current, LACCS FF and voltage. All DC voltage is fully contained within the module.

3 As per IEC 61215-2016 tested and certified.

4 AC modules shall be connected to Enphase Monitoring hardware (IQ Gateway) to enable Enphase product warranty.

5 Refer to the DC module, Class C fire rating per IEC 61730.

6 At STC with MPP range.

7 Panels degraded 0% in extended LeTID testing conducted by PVEL. Test report R10124977G-1,2020.

Designed in U.S.A.

Assembled in China

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