FROM MAXEON SOLAR TECHNOLOGIES

MAXEON 6 AC SOLAR PANEL

410-425 W | Up to 22.0% Efficient

AC Factory-integrated microinverter

SUNPOWER



Black backsheet, black frame

HOT-SPOT

PROTECTED

More Lifetime Energy

Designed to maximise energy generation through leading efficiency, enhanced performance in high temperatures, and higher energy conversion in low-light conditions like mornings, evenings and cloudy days.

Uncompromising Reliability

Engineered to power through all types of weather conditions with crackresistant cells and reinforced connections that protect against fatigue and corrosion. Each panel's microinverter enables independent panel operation to mitigate the impact of shade while improving system performance.

Superior Sustainability

Clean ingredients, responsible manufacturing, and lasting energy production for 40 years make SunPower Maxeon panels the most sustainable choice in solar.



The Industry's Longest Warranty

SunPower Maxeon panels are covered by a 40-year warranty¹ backed by extensive third-party testing and field data from more than 33 million panels deployed worldwide.

Product and power coverage Year 1 minimum warranted output	40 Years 98.0%
Maximum annual degradation	0.25%
Microinverter limited product warranty covered by Enphase	25 Years



Learn more about the SPR-MAX6-XXX-BLK-E3-AC **sunpower.maxeon.com**

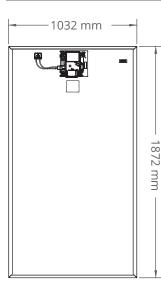
MAXEON 6 AC POWER: 410-425 W | EFFICIENCY: Up to 22.0%

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 ²	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	Ш	
AC Port Backfeed Current	18 mA	
Power Factor Setting	1.0	
Power Factor (adjustable)	0.8 lead. / 0.8 lag.	

DC Power Data			
	SPR-MAX6-425-	SPR-MAX6-415-	SPR-MAX6-410-
	BLK-E3-AC	BLK-E3-AC	BLK-E3-AC
Nom. Power ³ (Pnom)	425 W	415 W	410 W
Power Tol.	+5/0%	+5/0%	+5/0%
Module Efficiency	22.0%	21.5%	21.2%
Temp. Coef. (Power)		-0.29%/°C	
Shade Tol.	Integrated module-level max. power point tracking		
	Mechanic	al Data	

	Mechanical Data
Solar Cells	66 Maxeon 6 Cells
Tempered Glass	High-transmission tempered anti-reflective
Environmental Rating	Microinverter Outdoor rated - IP67 (UL: NEMA type 6)
Frame	Class 1 black anodized
Weight	21.8 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			
Design Load ⁴	Wind: 3600 Pa, 367 kg/m ² back			
	Snow: 5400 Pa, 551 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 (Pending)				
and Compliance				
Panel Warranties ¹	• 40-year limited power warranty			
i anei wairanties	40-year limited product warranty			
Microinverter	 25-year limited product warranty 			
Warranty	covered by Enphase warranty ⁵			
	 IEC 61215, 617306 			
	• IEC 62109-1, 62109-2			
Certifications and	• IEC 61000-6-3			
Compliance	• AS4777.2, RCM			
	• IEC/ EN 50549-1:2019, G98/G99			
	• VDE-AR-N-4105			
Quality Management Certs	ISO 9001:2015, ISO 14001:2015			
PID Test	1000 V: IEC 62804			
LeTID Test	Draft version IEC 61215 ⁷			
Available listing	TUV ⁶ , EnTest			
Green Building	Panels can contribute additional points			
Certification	towards LEED and BREEAM			
contribution	certifications			
EHS Compliance	RoHS, OHSAS 18001:2007, REACH SVHC-201			



FRAME PROFILE



(A) Long Side: 32 mm Short Side: 24 mm

Please read the safety and installation instructions. Visit www.sunpower.maxeon.com/int/InstallGuideACModules Paper version can be requested through techsupport.ROW@maxeon.com



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FREE ROHS COMPLIANT

1 40-year warranty is not available in all countries or all installations and requires registration, otherwise our 25-year warranty applies. Service availability varies by country and installation provider.

2 Tested per EN 50530 (EU).

3 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.

4 Safety factor 1.5 included.

5 AC modules shall be connected to Enphase Monitoring hardware (ENVOY) to enable Enphase product warranty.

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

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

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