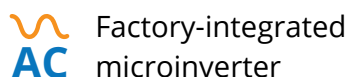


MAXEON 6 AC SOLAR PANEL

420-440 W | Up to 22.8% Efficient



White backsheet,
black frame

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 crack-resistant 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 25 years make SunPower Maxeon panels the most sustainable choice in solar.



A Better Product. A Better Warranty.

The 25-year SunPower Complete Confidence Panel Warranty is backed by testing and field data from more than 30 million SunPower Maxeon panels deployed—and a demonstrated warranty return rate of 0.005%.¹

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



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

MAXEON 6 AC POWER: 420-440 W | EFFICIENCY: Up to 22.8%

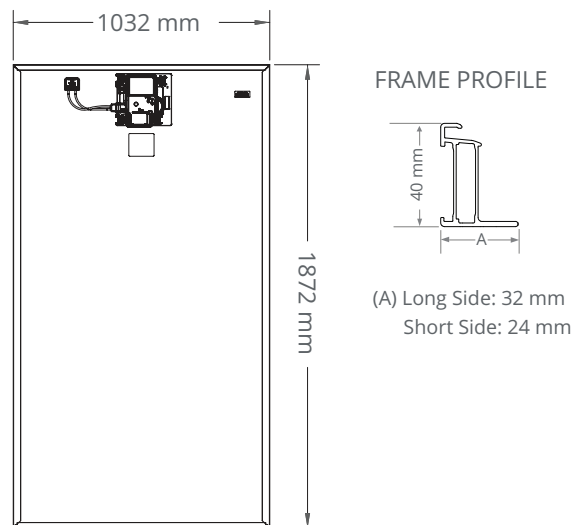
AC Electrical Data	
Inverter Model: IQ 7A	@230 VAC
Peak Output Power	366 VA
Max. Continuous Output Power	349 VA
Nom. (L-N) Voltage/Range	219 – 264 V
Max. Continuous Output Current	1.52 A
Max. Units per 20 A (L-N) Branch Circuit	10
Weighted Efficiency ²	96.5%
Nom. Frequency	50 Hz
Extended Frequency Range	45-55 Hz
AC Short Circuit Fault Current Over 3 Cycles	5.8 A rms
Overvoltage Class AC Port	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-MAX6-440-E3-AC	SPR-MAX6-435-E3-AC	SPR-MAX6-425-E3-AC	SPR-MAX6-420-E3-AC
Nom. Power ³ (P _{nom})	440 W	435 W	425 W	420 W
Power Tol.	+5/0%	+5/0%	+5/0%	+5/0%
Module Efficiency	22.8%	22.5%	22.0%	21.7%
Temp. Coef. (Power)	-0.29%/°C			
Shade Tol.	Integrated module-level max. power point tracking			

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/m ² 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 warranty ⁵
Certifications and Compliance	- IEC 61215, 61730⁶ - 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 9001:2015, ISO 14001:2015
PID Test	1000 V: IEC 62804
LeTID Test	Draft version IEC 61215 ⁷
Available listing	TUV ⁶ , EnTest
Green Building Certification contribution	Panels can contribute additional points towards LEED and BREEAM certifications
EHS Compliance	RoHS, OHSAS 18001:2007, REACH SVHC-201



1 SunPower panels are less than 50 dppm, or 0.005%, on over 15 million panels shipped - Source: "A Comparative Study: SunPower DC Solar Module Warranty Claim Rates" 2019. Complete Confidence Warranty applies to SunPower Maxeon DC Module only.

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.



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

Made in Malaysia (Cells)
Assembled in Malaysia (Module)
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SUNPOWER
FROM MAXEON SOLAR TECHNOLOGIES

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