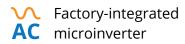
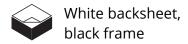
# MAXEON 6 AC SOLAR PANEL

420-440 W | Up to 22.8% Efficient





## **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 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 warranty<sup>1</sup> backed by extensive third-party testing and field data from more than 33 million panels deployed worldwide.

Product and power coverage 40 Years
Year 1 minimum warranted output 98.0%
Maximum annual degradation 0.25%

Microinverter limited product warranty covered by Enphase

25 Years



### 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 <sup>2</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.		

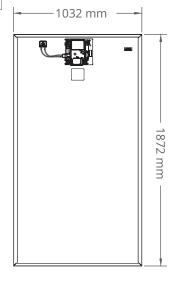
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DC Power Data					
	SPR-MAX6-	SPR-MAX6-	SPR-MAX6-	SPR-MAX6-	
	440-E3-AC	435-E3-AC	425-E3-AC	420-E3-AC	
Nom. Power <sup>3</sup> (Pnom)	440 W	435 W	425 W	420 W	
Power Tol.	+5/0%	+5/0%	+5/0%	+5/0%	
Module Efficiency	22.8%	22.5%	22.0%	21.7%	
Temp. Coef. (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	ng 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 <sup>4</sup>	Wind: 3600 Pa, 367 kg/m² 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 <sup>1</sup>	<ul> <li>40-year limited power warranty</li> <li>40-year limited product warranty</li> </ul>		
Microinverter Warranty	· 25-year limited product warranty covered by Enphase warranty <sup>5</sup>		
Certifications and Compliance	· IEC 61215, 61730 <sup>6</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 9001:2015, ISO 14001:2015		
PID Test	1000 V: IEC 62804		
LeTID Test	Draft version IEC 61215 <sup>7</sup>		
Available listing	TUV <sup>6</sup> , EnTest		
Green Building	Panels can contribute additional		
Certification	points towards LEED and BREEAM		
contribution	certifications		
EHS Compliance	RoHS, OHSAS 18001:2007, REACH SVHC-201		





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

- 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/ $m^2$  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.

Made in Malaysia (Cells)
Assembled in Malaysia (Module)
Specifications included in this datasheet are subject to change without notice.
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View warranty, patent and trademark information at maxeon.com/legal.



Please read the safety and installation instructions.

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

