FROM MAXEON SOLAR TECHNOLOGIES

# MAXEON 6 AC SOLAR PANEL

420-440 W | Up to 22.8% Efficient

**AC** Factory-integrated microinverter

SUNPOWER



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 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 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 Year 1 minimum warranted output Maximum annual degradation 40 Years 98.0% 0.25%

25 Years

HOT-SPOT

PROTECTED

Microinverter limited product warranty covered by Enphase

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 <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	111		
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-	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)		-0.299	%/°C	
Shade Tol.	Integrated mod	ule-level max. po	ower point tracki	וק

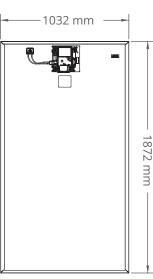
Mashaulas Data

Mechanical Data		
66 Maxeon 6 Cells		
High-transmission tempered anti-reflective		
Microinverter Outdoor rated - IP67 (UL: NEMA type 6)		
Class 1 black anodized		
21.8 kg		



Tested O	perating 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
Warran	ities, Certifications
an	d Compliance
Panel Warranties <sup>1</sup>	<ul> <li>40-year limited power warranty</li> <li>40-year limited product warranty</li> </ul>
Microinverter Warranty	<ul> <li>25-year limited product warranty covered by Enphase warranty<sup>5</sup></li> </ul>
Certifications and Compliance	<ul> <li>IEC 61215, 61730<sup>6</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 9001:2015, 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
	Panels can contribute additional

SVHC-201



**EHS** Compliance



RoHS, OHSAS 18001:2007, REACH



(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<sup>2</sup> 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. ©2022 Maxeon Solar Technologies. All Rights Reserved. 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



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