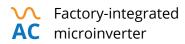
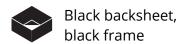
# **MAXEON 6 AC** SOLAR PANEL

410-425 W | Up to 22.0% 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 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%.<sup>1</sup>

Product and power coverage 25 Years
Year 1 minimum warranted output 98.0%
Maximum annual degradation 0.25%

Microinverter limited product warranty 25 Years covered by Enphase



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 <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.		

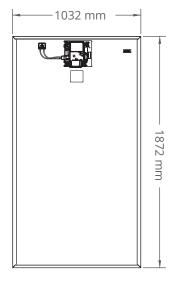
DC Power Data				
	SPR-MAX6-425-	SPR-MAX6-415-	SPR-MAX6-410-	
	BLK-E3-AC	BLK-E3-AC	BLK-E3-AC	
Nom. Power <sup>3</sup> (Pnom)	425 W	415 W	410 W	
Power Tol.	+5/0%	+5/0%	+5/0%	
Module Efficiency	22.0%	21.5%	21.2%	
Temp. Coef. (Power)		-0.29%/°C		
Shade Tol.	Integrated module-le	vel max. power point	tracking	

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		

LEAD FREE ROHS COMPLIANT
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Tested Operating Conditions			
-40°C to +60°C			
50°C			
4% to 100% (Condensing)			
2000 m			
Wind: 3600 Pa, 367 kg/m² back			
Snow: 5400 Pa, 551 kg/m <sup>2</sup> front			
25 mm diameter hail at 23 m/s			
Class II double-insulated, corrosion			
resistant polymeric enclosure			

Warranties, Certifications				
and Compliance				
Panel Warranties	<ul><li>25-year limited power warranty</li><li>25-year limited product warranty</li></ul>			
Microinverter Warranty	· 25-year limited product warranty covered by Enphase warranty <sup>5</sup>			
	· IEC 61215, 61730 <sup>6</sup> · 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 <sup>7</sup>			
Available listing	TUV <sup>6</sup> , EnTest			
Green Building	Panels can contribute additional points			
Certification	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 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. Microinverter covered by 25-year limited product warranty by Enphase.

- 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

