MAXEON 6 AC SOLAR PANEL
420-445 W | Up to 23% 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\(^1\) 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: 25 Years

Learn more about the SPR-MAX6-XXX-E4-AC
sunpower.maxeon.com
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
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
Night-time Power Loss 50 mW
Power Factor Setting 1.0
Power Factor (adjustable) 0.8 lead / 0.8 lag.

DC Power Data

SPR-MAX6-445-E4-AC SPR-MAX6-435-E4-AC SPR-MAX6-425-E4-AC SPR-MAX6-420-E4-AC
Nom. Power3 (Pnom) 445 W 435 W 425 W 420 W
Power Tol. +5/0% +5/0% +5/0% +5/0%
Module Efficiency 23.0% 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 glass with anti-reflective coating
Environmental Rating Microinverter Outdoor rated - IP67
Frame Class 1 black anodized
Weight 21.8 kg

Packaging Configuration

Number of modules per pallet 25
Number of pallets per 40ft HQ container 24
Number of modules per container 600

Warranties, Certifications and Compliance

Panel Warranties1
• 40-year limited power warranty
• 40-year limited product warranty
Microinverter Warranty
• 25-year limited product warranty covered by Enphase warranty5
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
Available listing TUV, EnTest
PID Test 1000 V: IEC 62804
LeTID Test TUV ZfG 2689/04.19 (LeTID Detection)7
Green Building Certification Panels can contribute additional points towards LEED and BREEAM certifications
EHS Compliance RoHS, ISO 45001:2018, REACH SVHC-201

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 As per IEC 61215-2016 tested and certified.
5 AC modules shall be connected to Enphase Monitoring hardware (IQ Gateway) 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.

Specifications included in this datasheet are subject to change without notice. ©2023 Maxeon Solar Technologies. All Rights Reserved. View warranty, patent and trademark information at maxeon.com/legal.

Made in Malaysia (Cells)
Assembled in Malaysia (Module)

VIEW WARRANTY, PATENT AND TRADEMARK INFORMATION AT MAXEON.COM/LEGAL.