

SUNPOWER®



SunPower® Maxeon Panels

SunPower Maxeon panels are fundamentally different. And better. With its unique copper foundation, Maxeon® technology delivers exceptional quality and industry-leading results.



Highest Lifetime Energy

Up to 55% more energy in the same space over 25 years compared to Conventional Panels.¹



Unmatched Reliability²

SunPower® Maxeon® panels demonstrate almost 4x stronger reliability than Conventional Panels and are backed by our industry-leading warranty.³



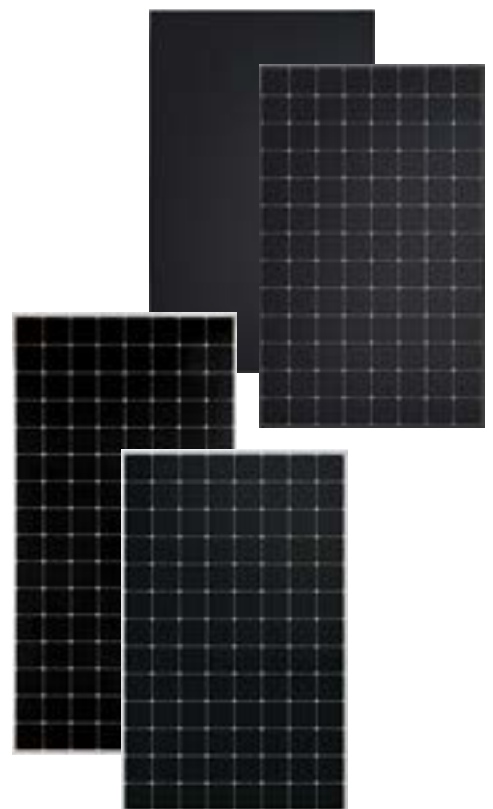
#1 in Durability²

SunPower® panels are designed for real world conditions, proven in the field with a 40-year expected useful life.⁴



Leader in sustainability

SunPower is rated #1 for sustainable manufacturing practices,⁵ and has set new transparency and recycling standards among solar panel manufacturers.



SUNPOWER®

MAXEON®



Demand Better Solar

Since 1985, SunPower has been focused on one singular mission: changing the way our world is powered.

- 34 years of 100% solar focus
- 30 Million panels (10.3 GW) installed in 130 countries
- #1 R&D investment in solar⁶ and 1,000+ patents
- Majority-owned subsidiary of Total S.A., the 4th largest energy company in the world at \$168 billion.⁷

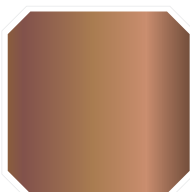
Your solar panel choice matters. Maximise your savings with solar's top durability, reliability and efficiency, all backed by our industry-leading warranty.³

#1 in Durability²

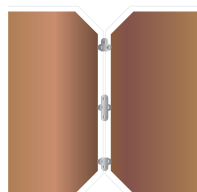
The patented metal foundation on SunPower® Maxeon® cells allows it to bend under tough conditions where others break. And Maxeon panels are proven, with an expected useful life of 40 years⁴ and a return rate of less than 0.005% on over 15 million panels shipped.⁸



No grid lines on cell front



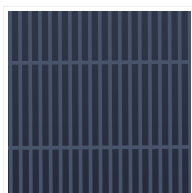
Solid metal backing



Thick connections



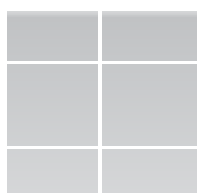
SunPower® Maxeon®



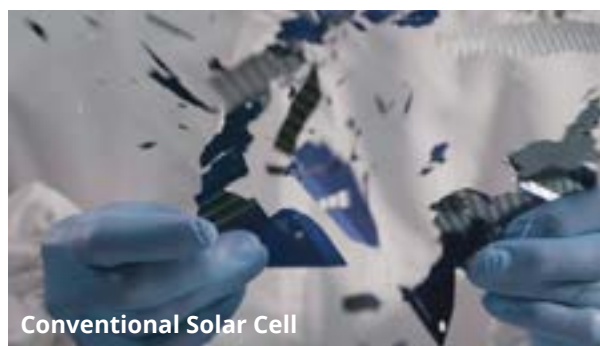
Lines of metal paste



Metal paste on back of cell



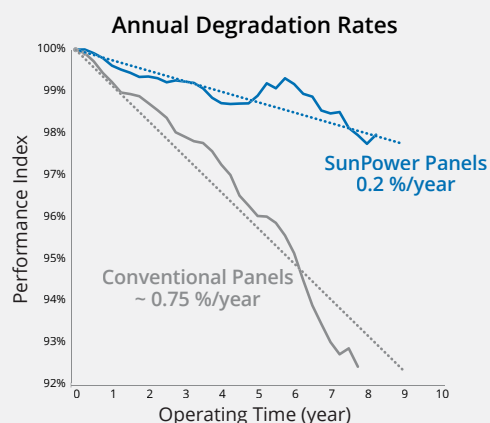
Thin connections



Conventional Solar Cell

Unmatched Reliability²

Invest with confidence, knowing that SunPower® Maxeon® panel quality is proven. In actual field testing across 8 years and 800,000 panels at 264 sites, Maxeon panels demonstrated the lowest degradation rates in the solar industry,² almost 4x stronger reliability than conventional panels. Maxeon panels are also backed by our industry-leading warranty.³



RESIDENTIAL ROOFTOPS

INDUSTRIAL ROOFTOPS

MAXEON 2 & MAXEON 3

MAXEON 2 COM & MAXEON 3 COM

Drainage notch improves yield.
(Available on 104-cell COM design only)

ENERGY PRODUCTION Up to **55%** more¹

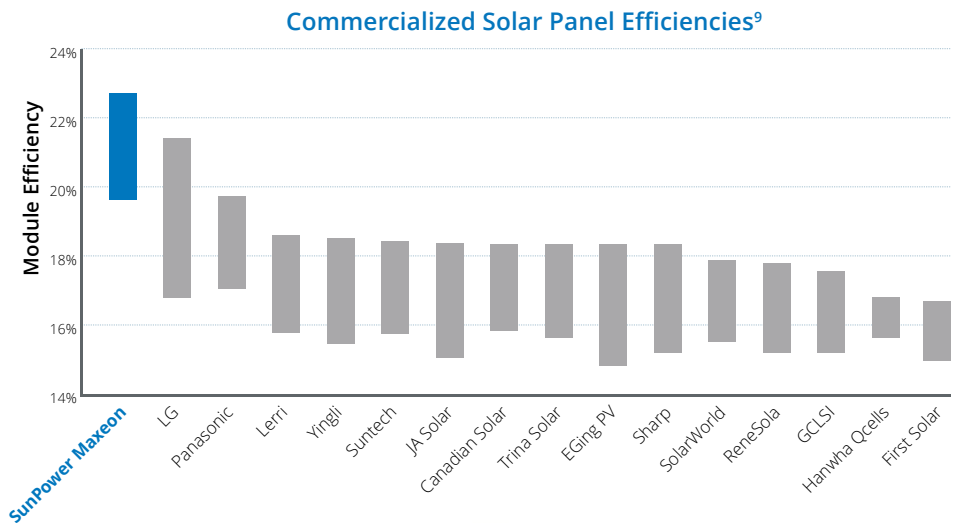
EFFICIENCY Up to **22.6%**

POWER Up to **400W***

*Maxeon Commercial modules are also available in larger form factors with rated power up to 470W.

Highest Lifetime Energy

As the most efficient panel in the solar industry for more than 10 years, Maxeon generates more power from the same roof than conventional panels. A SunPower Maxeon system delivers up to 55% more energy from the same space over the first 25 years.¹ And more energy means more savings.



Conventional Solar

6kW

22x

280W

SUNPOWER® | MAXEON®

6kW

15x

400W

SunPower® Complete Confidence Panel Warranty

A better warranty starts with a better product. SunPower's Complete Confidence Panel Warranty provides the industry-leading 25-year power, product and service coverage. We have absolute confidence in our panels' ability to deliver more energy, reliability and savings over time—backed by extensive third party testing and field data from our more than 30 million panels deployed.



Power

Highest power output protection in the solar industry: 92% in year 25.⁹



Product

Coverage for defects related to workmanship and materials for 25 years, versus the typical 10-year warranty of conventional panels.



Service

Repair, replacement or reimbursement for any defective panel for 25 years, hassle free.¹⁰

Leader in Sustainable Manufacturing

SunPower is rated #1 among solar manufacturers for sustainable practices.⁵ Maxeon panels have helped SunPower pioneer new standards for solar industry transparency and recycling.



Take the next step

SunPower is uniquely qualified to deliver on your energy goals and facilitate a solution that's right for your needs and budget.

Our objective is to provide you with industry leading solar technology, while delivering the highest standard of quality and customer service.



Ready to go solar?

To learn more about SunPower visit us at: sunpower.com

DEMAND BETTER SOLAR

SUNPOWER®

1 SunPower 400 W, 22.6% efficient, compared to a Conventional Panel on same-sized arrays (280 W p-multi, 17% efficient, approx. 1.64 m²), 8% more energy per watt (based on PVSim runs for avg US climate), 0.5%/yr slower degradation rate (Jordan, et. al. Robust PV Degradation Methodology and Application. PVSC 2018).

2 Dirk Jordan et al, Robust PV Degradation Methodology and Application, March 2018 <https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=8233204>In partnership with the National Renewable Energy Laboratory (NREL), the U.S. Department of Energy's primary national laboratory for renewable energy and energy efficiency research and development,

SunPower developed a robust method to calculate solar panel degradation which is something all solar panels experience, but at varying rates. When this method was applied to eight years of energy performance data from 264 SunPower solar systems operating at various locations worldwide, it proved that SunPower panels degrade at a median rate of 0.2 percent per year: 70 percent less than the annual degradation rate for Conventional Panels.

3 Competitor warranty information provided from latest warranty documentation from various conventional panel manufacturer websites as of December 2018.

4 SunPower Panel 40-year Useful Life. SunPower whitepaper. 2013.

5 SunPower is rated #1 on Silicon Valley Toxics Coalition's Solar Scorecard, validating our comprehensive approach to responsible business.

6 Between 2007-2017, SunPower spent more money in R&D than any other crystalline module manufacturer. Source: PVTech.com. R&D spending analysis of top PV module manufacturers, Osborne (2017) (2018 based on publicly reported R&D spending).

7 Source: Forbes Global 2000 List, market capitalisation as of June 2018.

8 SunPower White Paper, 2019

9 Based on 2019 review of warranties from top 20 manufacturers per IHS 2018.

10 Repair, replacement or reimbursement will be at SunPower's sole discretion. Warranty service availability may vary from country to country. Ask your installer for full warranty information at the time of purchase or check our website sunpower.com.

Cradle to Cradle Certified is a certification mark licensed by the Cradle to Cradle Products Innovation Institute. Cradle to Cradle Certified is a multi-attribute certification program that assesses products and materials for safety to human & environmental health, design for future use cycles, and sustainable manufacturing.

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MAXEON 3 SOLAR PANEL

390–400 W | Up to 22.6% Efficient



Ideal for residential applications



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 Durability

Engineered to power through all types of weather conditions with crack-resistant cells and reinforced connections that protect against fatigue and corrosion, to an electrical architecture that mitigates the impact of shade and prevents hot-spot formation.



Superior Sustainability

Clean ingredients, responsible manufacturing, and lasting energy production for 40 years make SunPower Maxeon panels the most sustainable choice in solar.

SUNPOWER



The Industry's Longest Warranty

SunPower Maxeon panels are covered by a 40-year warranty¹ 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%



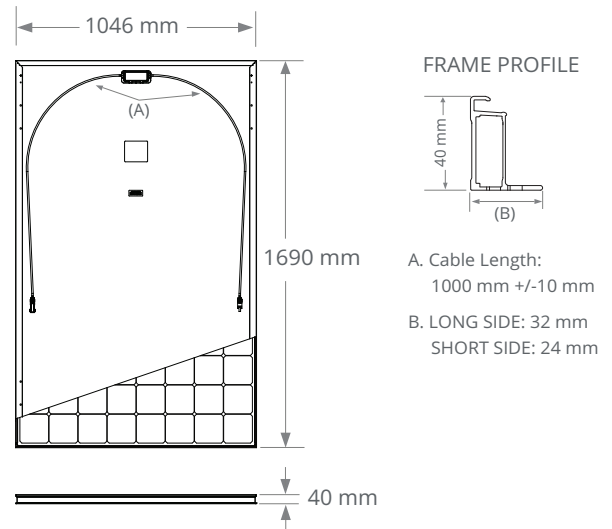
Learn more about the SPR-MAX3-XXX
sunpower.maxeon.com

MAXEON 3 POWER: 390–400 W | EFFICIENCY: Up to 22.6%

Electrical Data			
	SPR-MAX3-400	SPR-MAX3-395	SPR-MAX3-390
Nominal Power (P _{nom}) ²	400 W	395 W	390 W
Power Tolerance	+5/0%	+5/0%	+5/0%
Panel Efficiency	22.6%	22.3%	22.1%
Rated Voltage (V _{mpp})	65.8 V	65.1 V	64.5 V
Rated Current (I _{mpp})	6.08 A	6.07 A	6.05 A
Open-Circuit Voltage (V _{oc})	75.6 V	75.4 V	75.3 V
Short-Circuit Current (I _{sc})	6.58 A	6.56 A	6.55 A
Max. System Voltage	1000 V IEC		
Maximum Series Fuse	20 A		
Power Temp Coef.	-0.27% / °C		
Voltage Temp Coef.	-0.236% / °C		
Current Temp Coef.	0.058% / °C		

Operating Condition And Mechanical Data	
Temperature	-40°C to +85°C
Impact Resistance	25 mm diameter hail at 23 m/s
Solar Cells	104 Monocrystalline Maxison Gen 3
Tempered Glass	High-transmission tempered anti-reflective
Junction Box	IP-68, Stäubli (MC4), 3 bypass diodes
Weight	19 kg
Max. Load ⁶	Wind: 2400 Pa, 244 kg/m ² front & back Snow: 5400 Pa, 550 kg/m ² front
Frame	Class 1 black anodized (highest AAMA rating)

Warranties, Certifications and Compliance	
Standard Tests ³	IEC 61215, IEC 61730
Quality Management Certs	ISO 9001:2015, ISO 14001:2015
Ammonia Test	IEC 62716
Desert Test	IEC 60068-2-68, MIL-STD-810G
Salt Spray Test	IEC 61701 (maximum severity)
PID Test	1000 V: IEC 62804
Available Listings	TUV
IFLI Declare Label	First solar panel labeled for ingredient transparency and LBC-compliance. ⁴
Cradle to Cradle Certified™ Bronze	First solar panel line certified for material health, water stewardship, material reutilization, renewable energy & carbon management, and social fairness. ⁵
Green Building Certification Contribution	Panels can contribute additional points toward LEED and BREEAM certifications.
EHS Compliance	RoHS, OHSAS 18001:2007, Recycle Scheme, REACH SVHC-163



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

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 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C). NREL calibration Standard: SOMS current, LACCS FF and Voltage.

3 Class C fire rating per IEC 61730.

4 Maxison DC panels first received the International Living Future Institute Declare Label in 2016.

5 Maxison DC panels are Cradle to Cradle Cradle Certified™ Bronze Bronze - www.c2ccertified.org/products/scorecard/e-series_xseries_solar_panels_-_sunpower_corporation. Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.

6 Safety factor 1.5 included.

Made in Philippines (Cells)

Assembled in Mexico (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.

SUNPOWER

FROM MAXEON SOLAR TECHNOLOGIES

544451 REV A / A4_EN
Publication Date: March 2022

MAXEON 3 SOLAR PANEL

415-430 W | Up to 22.7% Efficient



Ideal for residential applications



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 Durability

Engineered to power through all types of weather conditions—from crack-resistant cells and reinforced connections that protect against fatigue and corrosion, to an electrical architecture that mitigates the impact of shade and prevents hot-spot formation.



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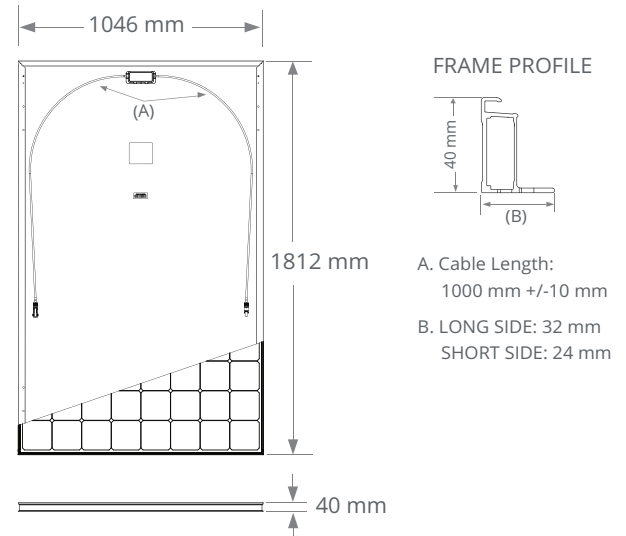
Learn more about the SPR-MAX3-XXX
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MAXEON 3 POWER: 415-430 W | EFFICIENCY: Up to 22.7%

Electrical Data			
	SPR-MAX3-430	SPR-MAX3-425	SPR-MAX3-415
Nominal Power (P _{nom}) ²	430 W	425 W	415 W
Power Tolerance	+5/0%	+5/0%	+5/0%
Panel Efficiency	22.7%	22.4%	21.9%
Rated Voltage (V _{mpp})	70.4 V	70.0 V	69.2 V
Rated Current (I _{mpp})	6.11 A	6.07 A	6.00 A
Open-Circuit Voltage (V _{oc}) (+/-3%)	81.4 V	81.3 V	81.2 V
Short-Circuit Current (I _{sc}) (+/-3%)	6.57 A	6.57 A	6.55 A
Max. System Voltage	1000 V IEC		
Maximum Series Fuse	20 A		
Power Temp Coef.	-0.27% / °C		
Voltage Temp Coef.	-0.236% / °C		
Current Temp Coef.	0.058% / °C		

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Temperature	-40°C to +85°C
Impact Resistance	25 mm diameter hail at 23 m/s
Solar Cells	112 Maxison 3 Cells
Tempered Glass	High-transmission tempered anti-reflective
Junction Box	IP-68, Stäubli (MC4), 3 bypass diodes
Weight	21.2 kg
Max. Load ⁶	Wind: 2400 Pa, 244 kg/m ² front & back Snow: 5400 Pa, 550 kg/m ² front
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6 Safety factor 1.5 included.

Made in Philippines (Cells)

Assembled in Malaysia (Module)

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maxeon

MAKER OF SUNPOWER PANELS

544455 REV A / A4_EN
Publication Date: January 2022