

SunPower Maxeon 7

SPR-MAX7-XXX-PT

Home Solar Panel

435–445 W | Up to 24.1% 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.



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%



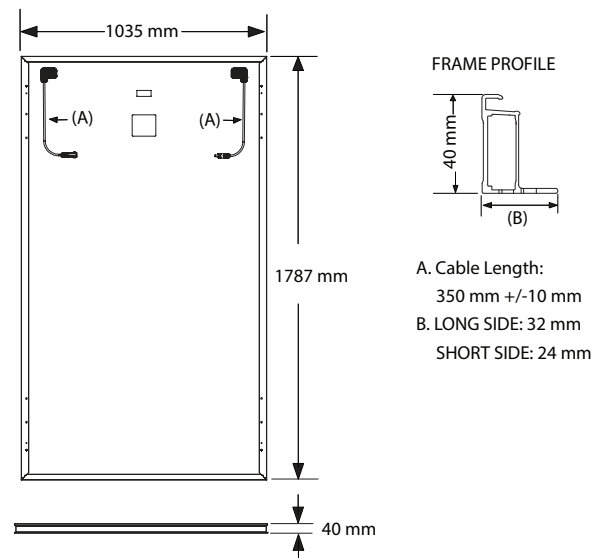
Maxeon 7 POWER: 435–445 W | EFFICIENCY: Up to 24.1%

Electrical Data			
	SPR-MAX7-445-PT	SPR-MAX7-440-PT	SPR-MAX7-435-PT
Nominal Power (P _{nom}) ²	445 W	440 W	435 W
Power Tolerance	+5/0%	+5/0%	+5/0%
Panel Efficiency	24.1%	23.8%	23.5%
Rated Voltage (V _{mpp})	71.4 V	71.0 V	70.6 V
Rated Current (I _{mpp})	6.23 A	6.20 A	6.16 A
Open-Circuit Voltage (V _{oc}) (+/-3%)	83.0 V	83.0 V	82.9 V
Short-Circuit Current (I _{sc}) (+/-3%)	6.60 A	6.59 A	6.58 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	45 mm diameter hail at 30.7 m/s
Solar Cells	112 Monocrystalline Maxeon Gen 7
Tempered glass	3.2 mm, high-transmission tempered anti-reflective
Junction Box	IP-68, Stäubli (MC4), 2 bypass diodes
Weight	20.7 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)

Packaging Configuration	
Number of modules per pallet	26
Number of pallets per 40ft HQ container	24
Number of modules per container	624

Certifications and Compliance	
Standard Tests	IEC 61215, IEC 61730
Fire Ratings ³	Spread of Flame: Class A Burning Brand: Class C
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 (Severity 6)
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™ Silver	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, ISO 45001:2018, 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 As per IEC 61730-2 / UL 790.

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

5 Maxeon DC panels are Cradle to Cradle Certified™ Silver - www.c2ccertified.org/certified-products-and-materials/maxeon-solar-panels. Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.

6 As per IEC 61215-2016 tested and certified. See Safety and Installation Guideline for details.

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

551184 REV A / A4_EN
Publication Date: January 2024



Shingled Cell



AC Module



Black Backsheet
Black Frame



Residential



PERFORMANCE 3 AC

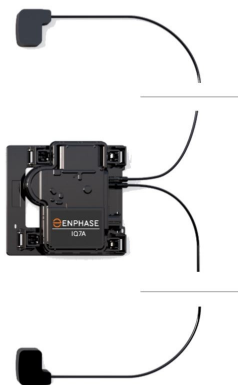
Power Range: 370 – 385 W

The new SunPower Performance 3 AC Modules combine enhanced full black shingling technology with the world's most advanced inverter technology. The result is an elegant, optimized solution for any roof.

Backed by an industry-leading warranty and an estimated 35-year useful life,¹ SunPower Performance panels wrap conventional front contact cells with 35 years of materials, engineering and manufacturing expertise to mitigate the reliability challenges of Conventional Panel design.

Factory-integrated Microinverter (MI)

- Integrated AC module
- 25-Year limited product warranty covered by Enphase
- Engineered by Enphase for SunPower AC modules



Durability that Translates to More Energy

Engineered to stand up to environmental stresses such as shading, daily temperature swings and high humidity, the SunPower Performance 3 panel delivers up to 7% more energy in the same space over 25 years compared to Conventional mono PERC Panels.²

A Track Record of Innovation Leadership

SunPower Performance panels represent the most deployed shingled cell panel in the industry—innovation protected by a growing portfolio of patents worldwide.³



4+ GW
Deployed



60+
Countries



90+
Patents

A Better Product. A Better Warranty.

Each SunPower Performance panel is manufactured with the confidence to deliver more energy and reliability over time—and backed for 25 years by the SunPower Complete Confidence Panel Warranty.

- Year 1 Minimum Warranted Power Output 98.0%
- Maximum Annual Degradation 0.45%
- Year 25 Minimum Warranted Power Output 87.2%

PERFORMANCE 3 AC Power: 370 – 385 W

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 ⁴	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-P3-385-BLK- E3-AC	SPR-P3-380-BLK- E3-AC	SPR-P3-375-BLK- E3-AC	SPR-P3-370-BLK- E3-AC
Nom. Power ⁵ (P _{nom})	385 W	380 W	375 W	370 W
Power Tol.	+5/0%	+5/0%	+5/0%	+5/0%
Module Efficiency	19.6%	19.4%	19.1%	18.9%
Temp. Coef. (Power)	-0.34%/°C			
Shade Tol.	Integrated module-level max. power point tracking			

Mechanical Data	
Solar Cells	Monocrystalline PERC
Front Glass	High-transmission tempered glass with anti-reflective coating
Junction Box	IP-68, PV4S, 3 bypass diodes
Environmental Rating	Microinverter Outdoor rated - IP67 (UL: NEMA type 6)
Frame	Class 1 black anodized
Weight	22.2 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
Max. Test Load	Wind: 2400 Pa, 245 kg/m ² back Snow: 5400 Pa, 550 kg/m ² front
Design Load ⁶	Wind: 1600 Pa, 163 kg/m ² back Snow: 3600 Pa, 367 kg/m ² front
Impact Resistance	25 mm diameter hail at 23 m/s
Microinverter enclosure	Class II double-insulated, corrosion resistant polymeric enclosure

Warranties, Certifications, and Compliance	
Warranties	<ul style="list-style-type: none"> • 25-year limited power warranty • 25-year limited product warranty
Microinverter Warranty	<ul style="list-style-type: none"> • 25-year limited product warranty covered by Enphase warranty⁷
Certifications and Compliance	<ul style="list-style-type: none"> • IEC 61215, 61730⁸ • 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 9001:2004, ISO 14001:2008
PID Test	1000 V: IEC 62804
Available listing	TUV ⁸ , EnTest
EHS Compliance	OHSAS 18001:2007, Recycling Scheme

1 Performance panels expected useful life of 35 years. Source: "SunPower P-Series Technology Technical Review," Leidos Independent Engineer Report. 2016.

2 SunPower 385 W, 19.6% efficient, connected to an IQ7A, compared to a Conventional Panel on same-sized arrays (310 W mono PERC, 19% efficient, approx. 1.64 m²), 1% more energy per watt (based on PVSIM runs for avg EU climate), 0.1%/yr slower degradation rate (Based on Oct. 2020 review of warranties on manufacturer websites for top 20 manufacturers per IHS 2020) connected to a String Inverter.

3 Based on shipments as of Q2-2020.

4 Tested per EN 50530 (EU).

5 Measured at Standard Test Conditions (STC): irradiance of 1000 W/m², AM 1.5, and cell temperature 25° C.

6 Safety factor 1.5 included.

7 AC modules shall be connected to Enphase Monitoring hardware (ENVOY) to enable Enphase product warranty

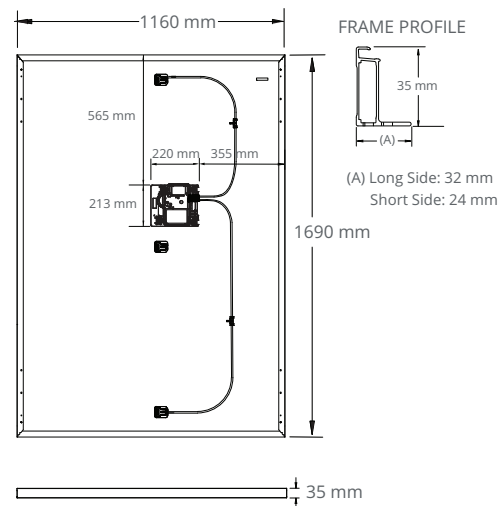
8 Refer to DC module, Class C fire rating per IEC 61730.

Designed in U.S.A.

Assembled in China

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305 SOLAR PANEL

EXCEPTIONAL EFFICIENCY AND PERFORMANCE

BENEFITS

Highest Efficiency

Panel efficiency of 18.7% is higher than any commercially available competitor panel

More Power

SunPower 305 delivers 50% more power per unit area than conventional solar panels and 100% more than thin film solar panels

Reduces Installation Cost

More power per panel means fewer panels per install. This saves both time and money

Reliable and Robust Design

Proven materials, tempered front glass, and a sturdy anodized frame allow panel to operate reliably in multiple mounting configurations



The SunPower 305 Solar Panel provides today's highest efficiency and performance. Utilizing 96 next generation SunPower all-back contact solar cells, the SunPower 305 delivers an unprecedented total panel conversion efficiency of 18.7%. The 305 panel's reduced voltage-temperature coefficient and exceptional low-light performance attributes provide outstanding energy delivery per peak power watt.

SunPower's High Efficiency Advantage - Up to Twice the Power

Comparable systems covering 1000 m ² / 10,750 ft ²			
	Thin Film	Conventional	SunPower
Watts / Panel	65	165	305
Efficiency	9.0%	12.0%	18.7%
kWs	90	120	187

Electrical Data

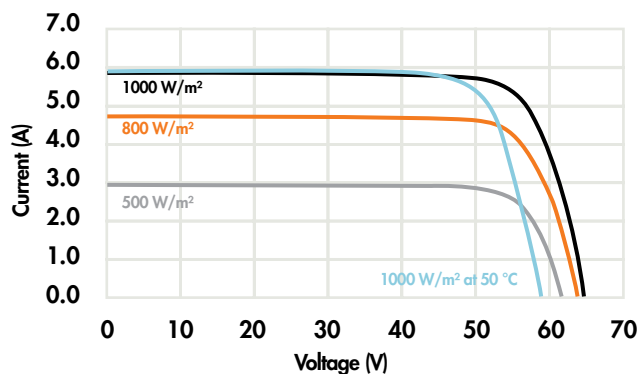
Measured at Standard Test Conditions (STC): irradiance of 1000/m², air mass 1.5 g, and cell temperature 25° C

Peak Power (+/-5%)	Pmax	305 W
Rated Voltage	Vmp	54.7 V
Rated Current	Imp	5.58 A
Open Circuit Voltage	Voc	64.2 V
Short Circuit Current	Isc	5.96 A
Maximum System Voltage	IEC, UL	1000 V, 600 V
Temperature Coefficients		
	Power	-0.38% / °C
	Voltage (Voc)	-176.6 mV/°C
	Current (Isc)	3.5 mA/°C
Series Fuse Rating		15 A
Peak Power per Unit Area		187 W/m ² , 17.4 W/ft ²
CEC PTC Rating		282.1 W

Mechanical Data

Solar Cells	96 SunPower all-back contact monocrystalline
Front Glass	4.0 mm (5/32 in) tempered
Junction Box	IP-65 rated with 3 bypass diodes
Output Cables	900 mm length cables / Multi-Contact connectors
Frame	Clear anodized aluminum alloy type 6063
Weight	24 kg, 53 lbs

IV Curve



Current/voltage characteristics with dependence on irradiance and module temperature.

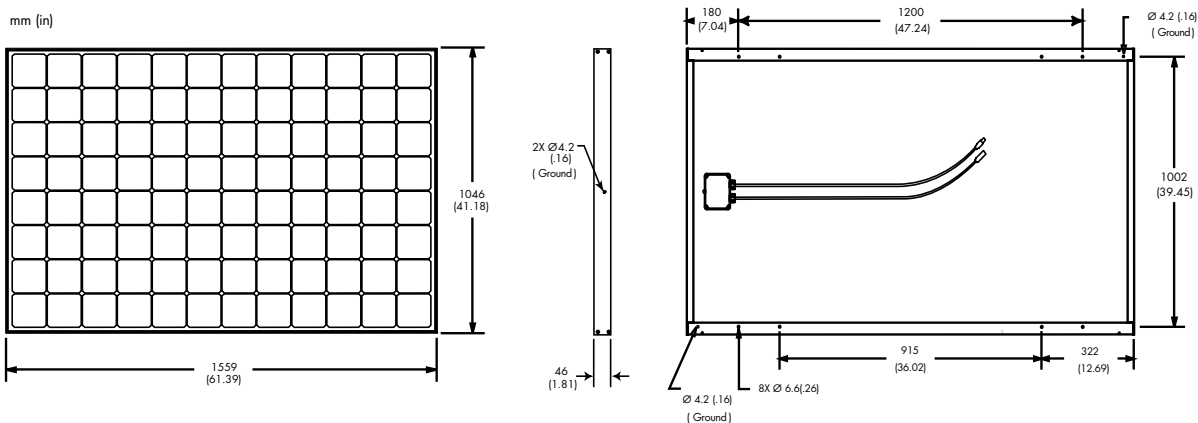
Tested Operating Conditions

Temperature	-40° C to +85° C (-40° F to +185° F)
Max load	50 psf (2400 Pascals) front and back
Impact Resistance	Hail - 25mm (1 in) at 23 m/s (52 mph)

Warranty and Certifications

Warranty	25 year limited power warranty 10 year limited product warranty
Certifications	IEC 61215 , Safety tested IEC 61730; UL listed (UL 1703), Class C Fire Rating

Dimensions



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. Go to www.sunpowercorp.com/panels for details

About SunPower

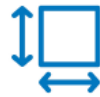
SunPower designs, manufactures and delivers high-performance solar electric technology worldwide. Our high-efficiency solar cells generate up to 50 percent more power than conventional solar cells. Our high-performance solar panels, roof tiles and trackers deliver significantly more energy than competing systems.



400–425 W Residential AC Module

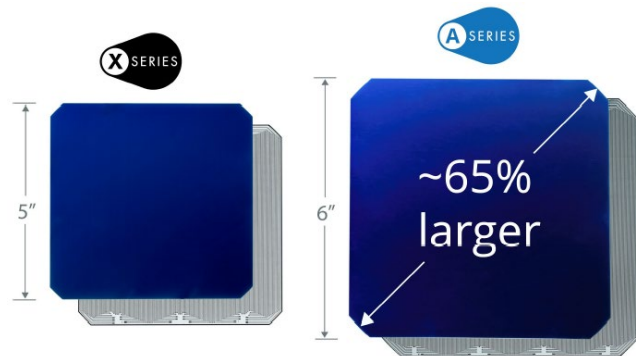
SunPower® Maxeon® Technology

Built specifically for use with the SunPower Equinox™ system, the only fully integrated solution designed, engineered and warranted by one manufacturer.

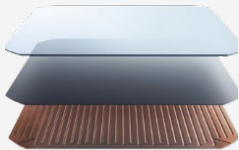


Highest Power Density Available.

SunPower's new Maxeon® Gen 5 cell is 65% larger than prior generations, delivering the most powerful cell and highest-efficiency panel in residential solar. The result is more power per square meter than any commercially available solar.



Fundamentally Different. And Better.



SunPower® Maxeon® Technology

- Most powerful cell in home solar ²
- Delivers unmatched reliability ³
- Patented solid metal foundation prevents breakage and corrosion



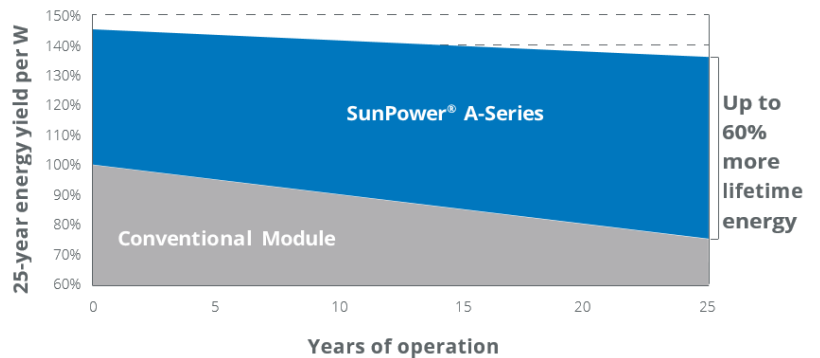
Factory-integrated Microinverter (MI)

- Highest-power integrated AC module in solar
- 60% lighter than prior SunPower MIs
- Engineered and calibrated by SunPower for SunPower AC modules



Highest Lifetime Energy and Savings.

Designed to deliver 60% more energy over 25 years in real-world conditions like partial shade and high temperatures.¹



Best Reliability. Best Warranty.

With more than 25 million modules deployed around the world, SunPower technology is proven to last. That's why we stand behind our module and microinverter with the industry's best 25-year Combined Power and Product Warranty, including the highest Power Warranty in solar.



A-Series: A425 | A415 | A400 SunPower® Residential AC Module

AC Electrical Data	
Inverter Model: SPWR-A4	@240 VAC
Peak Output Power	366 VA
Max. Continuous Output Power	349 VA
Nom. (L-L) Voltage/Range ² (V)	240 / 211–264
Max. Continuous Output Current (A)	1.45
Max. Units per 20 A (L-L) Branch Circuit ³	11
CEC Weighted Efficiency	97.0%
Nom. Frequency	60 Hz
Extended Frequency Range	47–68 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)	0.7 lead. / 0.7 lag.

DC Power Data			
	SPR-A425-G-AC	SPR-A415-G-AC	SPR-A400-G-AC
Nom. Power ⁵ (P _{nom})	425 W	415 W	400 W
Power Tol.	+5/-0%	+5/-0%	+5/-0%
Module Efficiency	22.8	22.3	21.5
Temp. Coef. (Power)	-0.29%/°C		
Shade Tol.	Integrated module-level max. power point tracking		

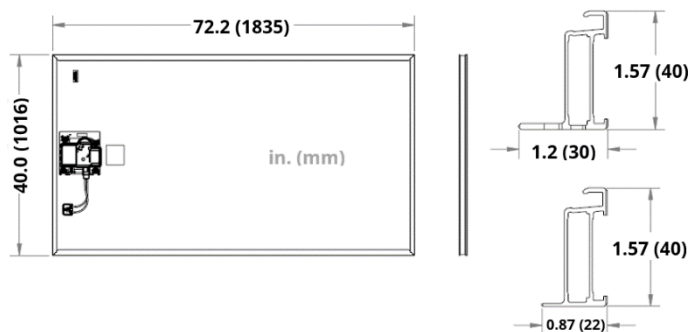
Tested Operating Conditions	
Operating Temp.	-40°F to +140°F (-40°C to +60°C)
Max. Ambient Temp.	122°F (50°C)
Max. Load	Wind: 62 psf, 3000 Pa, 305 kg/m ² front & back Snow: 125 psf, 6000 Pa, 611 kg/m ² front
Impact Resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)

Mechanical Data	
Solar Cells	66 Monocrystalline Maxeon Gen 5
Front Glass	High-transmission tempered glass with anti-reflective coating
Environmental Rating	Outdoor rated
Frame	Class 1 black anodized (highest AAMA rating)
Weight	46.5 lbs (21.1 kg)
Recommended Max. Module Spacing	1.3 in. (33 mm)

1 SunPower 415 W, 22.2% efficient, compared to a Conventional Panel on same-sized arrays (260 W, 16% efficient, approx. 1.6 m²), 7.9% more energy per watt (based on PVsyst pan files for avg. US climate), 0.5%/yr slower degradation rate (Jordan, et. al. "Robust PV Degradation Methodology and Application." PVSC 2018).
 2 Based on search of datasheet values from websites of top 10 manufacturers per IHS, as of January 2019.
 3 #1 rank in "Fraunhofer PV Durability Initiative for Solar Modules: Part 3." PVTech Power Magazine, 2015. Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, 2013.
 4 Factory set to 1547a-2014 default settings. CA Rule 21 default settings profile set during commissioning. See the Equinox Installation Guide #518101 for more information.
 5 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.
 6 This product is UL Listed as PVRSE and conforms with NEC 2014 and NEC 2017 690.12; and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors; when installed according to manufacturer's instructions.

See www.sunpower.com/facts for more reference information.
 For more details, see extended datasheet www.sunpower.com/datasheets Specifications included in this datasheet are subject to change without notice.
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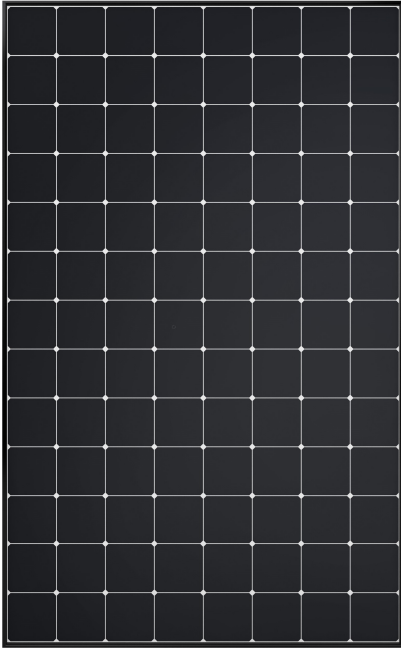
Warranties, Certifications, and Compliance	
Warranties	<ul style="list-style-type: none"> • 25-year limited power warranty • 25-year limited product warranty
Certifications and Compliance	<ul style="list-style-type: none"> • UL 1703 • UL 1741 / IEEE-1547 • UL 1741 AC Module (Type 2 fire rated) • UL 62109-1 / IEC 62109-2 • FCC Part 15 Class B • ICES-0003 Class B • CAN/CSA-C22.2 NO. 107.1-01 • CA Rule 21 (UL 1741 SA)⁴ (includes Volt/Var and Reactive Power Priority) • UL Listed PV Rapid Shutdown Equipment⁶ <p>Enables installation in accordance with:</p> <ul style="list-style-type: none"> • NEC 690.6 (AC module) • NEC 690.12 Rapid Shutdown (inside and outside the array) • NEC 690.15 AC Connectors, 690.33(A)-(E)(1) <p>When used with InvisiMount racking and InvisiMount accessories (UL 2703):</p> <ul style="list-style-type: none"> • Module grounding and bonding through InvisiMount • Class A fire rated <p>When used with AC module Q Cables and accessories (UL 6703 and UL 2238)⁶:</p> <ul style="list-style-type: none"> • Rated for load break disconnect
PID Test	Potential-induced degradation free



UL LISTED
 AC MODULE
 GRID SUPPORT UTILITY
 INTERACTIVE
 PV RAPID SHUTDOWN
 EQUIPMENT
 E478330
 Module Fire Performance: Type 2
 Please read the Safety and Installation Instructions 532628 for additional details.

SUNPOWER®

532618 RevA



MAXEON® 3 | 400 W

Residential Solar Panel

SunPower Maxeon panels combine the top efficiency, durability and warranty available in the market today, resulting in more long-term energy and savings.^{1,2}



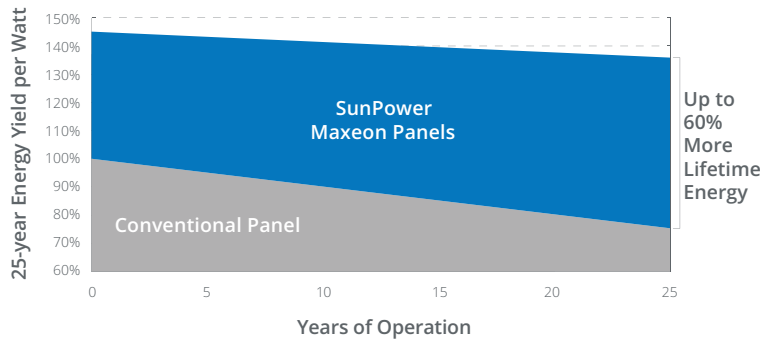
Maximum Power. Minimalist Design.

Industry-leading efficiency means more power and savings per available space. With fewer panels required, less is truly more.

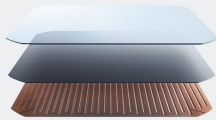


Highest Lifetime Energy and Savings

Designed to deliver 60% more energy in the same space over 25 years in real-world conditions like partial shade and high temperatures.²



Fundamentally Different. And Better.



The SunPower Maxeon® Solar Cell

- Enables highest efficiency panels available²
- Unmatched reliability³
- Patented solid metal foundation prevents breakage and corrosion



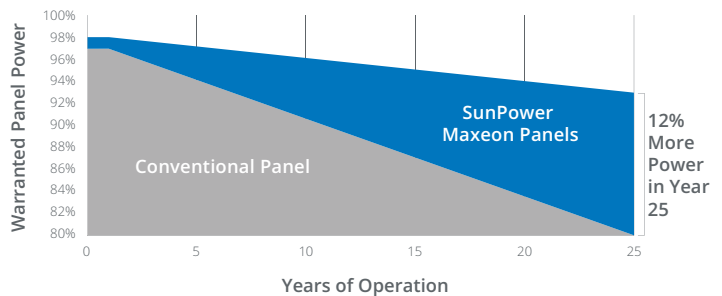
As Sustainable As Its Energy

- Ranked #1 in Silicon Valley Toxics Coalition Solar Scorecard⁴
- First solar panels to achieve Cradle to Cradle Certified™ Silver recognition⁵, pending
- Contributes to more LEED categories than conventional panels⁶



Better Reliability, Better Warranty

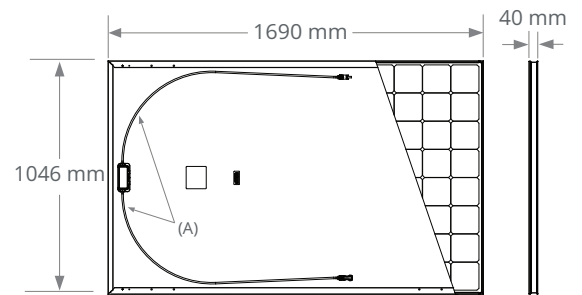
With more than 25 million panels deployed around the world, SunPower technology is proven to last. That's why we stand behind our panel with an exceptional 25-year Combined Power and Product Warranty, including the highest Power Warranty in solar.



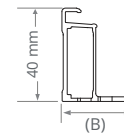
Electrical Data			
	SPR-MAX3-400	SPR-MAX3-390	SPR-MAX3-370
Nominal Power (P _{nom}) ⁷	400 W	390 W	370 W
Power Tolerance	+5/0%	+5/0%	+5/0%
Panel Efficiency	22.6%	22.1%	20.9%
Rated Voltage (V _{mpp})	65.8 V	64.5 V	61.8 V
Rated Current (I _{mpp})	6.08 A	6.05 A	5.99 A
Open-Circuit Voltage (V _{oc})	75.6 V	75.3 V	74.7 V
Short-Circuit Current (I _{sc})	6.58 A	6.55 A	6.52 A
Max. System Voltage	1000 V IEC		
Maximum Series Fuse	15 A		
Power Temp Coef.	-0.29% / °C		
Voltage Temp Coef.	-176.8 mV / °C		
Current Temp Coef.	2.9 mA / °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 Maxeon Gen III
Tempered Glass	High-transmission tempered anti-reflective
Junction Box	IP-65, Stäubli (MC4), 3 bypass diodes
Weight	19 kg
Design Load	Wind: 2660 Pa, 274 kg/m ² front & back Snow: 4000 Pa, 408 kg/m ² front
Max. Load ¹⁰	Wind: 4000 Pa, 408 kg/m ² front & back Snow: 6000 Pa, 611 kg/m ² front
Frame	Class 1 black anodized (highest AAMA rating)

Tests And Certifications	
Standard Tests ⁸	IEC 61215, IEC 61730 Class 1 fire rated per UNI 9177
Quality Management Certs	ISO 9001:2015, ISO 14001:2015
EHS Compliance	RoHS (Pending), OHSAS 18001:2007, lead free, REACH SVHC-163 (Pending)
Sustainability	Cradle to Cradle Certified™ (Pending)
Ammonia Test	IEC 62716
Desert Test	10.1109/PVSC.2013.6744437
Salt Spray Test	IEC 61701 (maximum severity)
PID Test	1000 V: IEC 62804, PVEL 600 hr duration
Available Listings	TUV ⁹



FRAME PROFILE



A. Cable Length: 1200 mm +/-10 mm
 B. LONG SIDE: 32 mm
 SHORT SIDE: 24 mm

Please read the safety and installation guide.

1 SunPower 400 W, 22.6% efficient, compared to a Conventional Panel on same-sized arrays (260 W, 16% efficient, approx. 1.6 m²), 7% more energy per watt (based on PVsyst pan files for avg EU climate), 0.5%/yr slower degradation rate (Jordan, et. al. "Robust PV Degradation Methodology and Application." PVSC 2018).

2 DNV "SunPower Shading Study," 2013. Compared to a conventional front contact panel.

3 #1 rank in "Fraunhofer PV Durability Initiative for Solar Modules: Part 3". PVTech Power Magazine, 2015.

4 SunPower is rated #1 on Silicon Valley Toxics Coalition's Solar Scorecard.

5 Cradle to Cradle Certified is a multi-attribute certification program that assesses products and materials for safety to human and environmental health, design for future use cycles, and sustainable manufacturing.

6 Maxeon2 and Maxeon3 panels additionally contribute to LEED Materials and Resources credit categories.

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

8 Class C fire rating per IEC 61730.

9 Also certified under names SPR-XYX-XXX.

10 Calculated with a 1.5 Safety Factor.

Designed in USA
 Made in Philippines (Cells)
 Modules Assembled in Mexico

Visit www.sunpowercorp.co.uk for more information.
 Specifications included in this datasheet are subject to change without notice.

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SUNPOWER®

MAXEON®



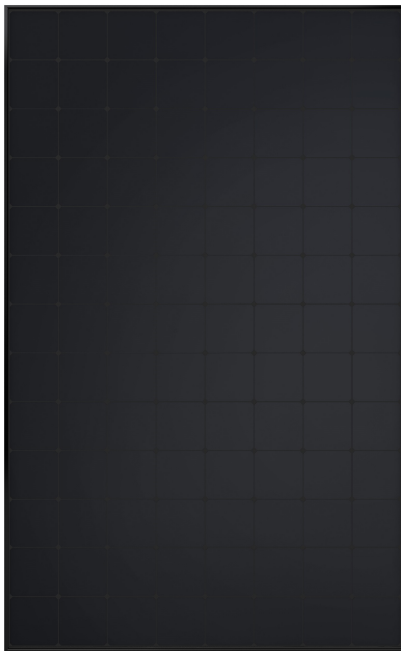
Back Contact



Black Backsheet
Black Frame



Residential



MAXEON 3 BLK

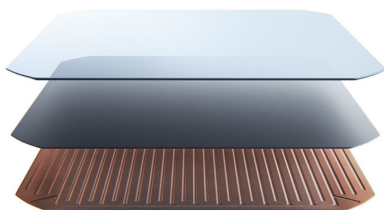
POWER RANGE: 355-375 W | EFFICIENCY: Up to 21.2%

Part of the record-setting SunPower Maxeon product line, the sleek black SunPower Maxeon 3 solar panel elegantly blends into any roof, while delivering leading efficiency that maximises energy production and savings potential for homeowners.

SunPower Maxeon panels are world-renowned for their energy production and savings advantages that combine unmatched efficiency and reliability with an industry-leading warranty and an estimated 40-year useful life.^{1,2,3,4}

SunPower Maxeon Solar Cell Technology

- Proven technology across 3.5 billion cells shipped
- Most efficient commercialized solar technology¹
- Only solar cell with a solid-metal foundation, providing patented protection from breakage and corrosion



Maximum Lifetime Energy and Savings

The SunPower Maxeon 3 solar panel is designed to deliver 35% more energy in the same space over 25 years in real-world conditions such as partial shade and high temperatures.^{5,6,7}

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 .005%.⁸



• Year 1 Minimum Warranted Power Output	98.0%
• Maximum Annual Degradation	0.25%
• Year 25 Warranted Power Output	92.0%

Leadership in Sustainable Manufacturing

SunPower Maxeon panels—and the facilities in which they are produced—raise the bar for environmental and social responsibility. Included below are highlights of the certifications and recognition received by some of our products and manufacturing sites.



Landfill-Free Facility
NSF P445



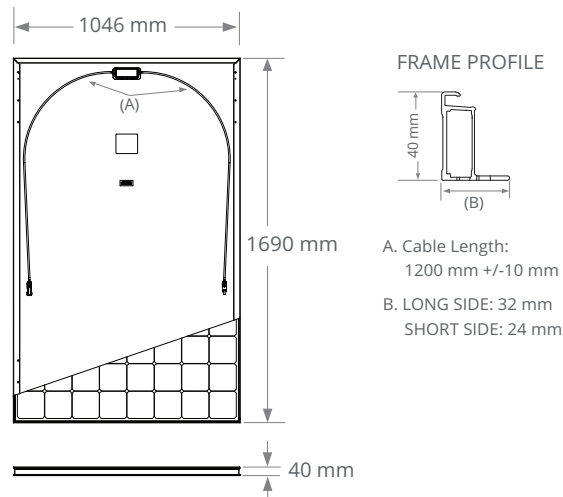
MAXEON 3 BLK POWER: 355-375 W | EFFICIENCY: Up to 21.2%

Electrical Data		
	SPR-MAX3-375-BLK	SPR-MAX3-355-BLK
Nominal Power (P _{nom}) ⁹	375 W	355 W
Power Tolerance	+5/0%	+5/0%
Panel Efficiency	21.2%	20.1%
Rated Voltage (V _{mpp})	62.5 V	59.8 V
Rated Current (I _{mpp})	6.00 A	5.94 A
Open-Circuit Voltage (V _{oc}) (+/-3%)	74.9 V	74.3 V
Short-Circuit Current (I _{sc}) (+/-3%)	6.52 A	6.49 A
Max. System Voltage	1000 V IEC	
Maximum Series Fuse	20 A	
Power Temp Coef.	-0.27% / °C	
Voltage Temp Coef.	-0.236% mV / °C	
Current Temp Coef.	0.058% mA / °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 Maxeon Gen III
Tempered Glass	High-transmission tempered anti-reflective
Junction Box	IP-68, Stäubli (MC4), 3 bypass diodes
Weight	19 kg
Max. Load ¹¹	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)

Tests And Certifications	
Standard Tests ¹⁰	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

Sustainability Tests and Certifications	
IFLI Declare Label	First solar panel labeled for ingredient transparency and LBC-compliance. ¹²
Cradle to Cradle Certified™ Bronze	First solar panel line certified for material health, water stewardship, material reutilization, renewable energy & carbon management, and social fairness. ¹³
Green Building Certification Contribution	Panels can contribute additional points toward LEED and BREEAM certifications. ¹⁴
EHS Compliance	RoHS, OHSAS 18001:2007, lead free, REACH SVHC-163



Please read the safety and installation guide.

1 Based on datasheet review of websites of top 20 manufacturers per IHS, as of Jan, 2020.

2 Jordan, et. al. Robust PV Degradation Methodology and Application. PVSC 2018.

3 Based on Oct. 2019 review of warranties on manufacturer websites for top 20 manufacturers per IHS 2018.

4 "SunPower Module 40-Year Useful Life," SunPower whitepaper. 2013.

5 SunPower 370 W, 22.7% efficient, compared to a Conventional Panel on same-sized arrays (310 W mono PERC, 19% efficient, approx. 1.64 m²)

6 PV Evolution Labs "SunPower Shading Study," 2013. Compared to a conventional front contact panel.

7 Based on temperature coefficients provided in manufacturer datasheets 2020.

8 SunPower panels are less than 50 dppm, or 0.005%, on over 15 million panels shipped - Source: SunPower White Paper, 2019.

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

10 Class C fire rating per IEC 61730.

11 Safety factor 1.5 included.

12 SunPower Maxeon DC panels first received the International Living Future Institute Declare Label in 2016.

13 SunPower Maxeon DC panels are Cradle to Cradle Certified™ Bronze - www.c2ccertified.org/products/scorecard/e-series_x-series_solar_panels_-_sunpower_corporation. Cradle to Cradle Certified™ Bronze. Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.

14 Maxeon panels can contribute to LEED Materials and Resources categories and BREEAM certification.

Designed in U.S.A. by SunPower Corporation

Made in Philippines (Cells)

Assembled in Mexico (Module)

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