



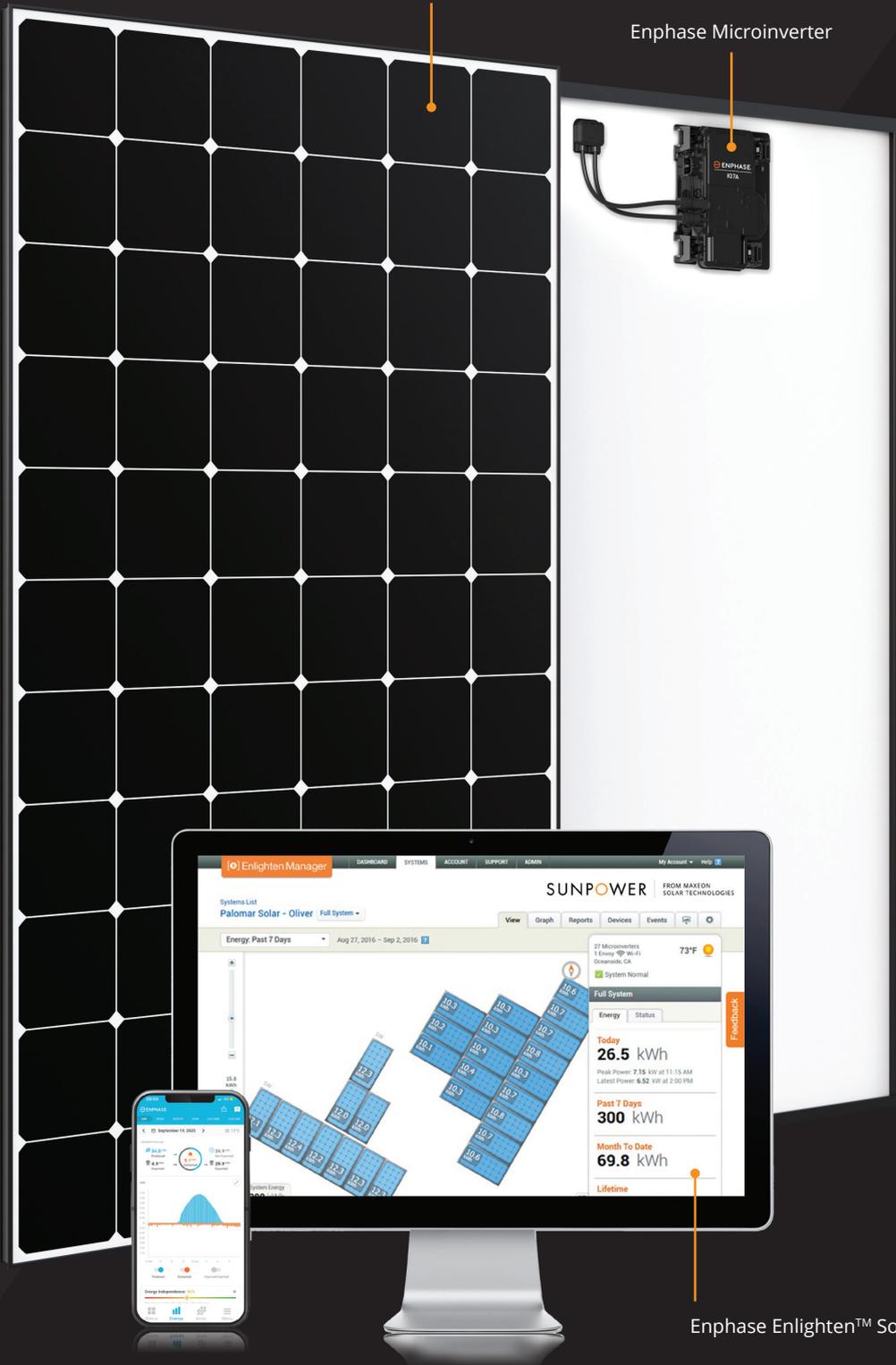
# SunPower Maxeon 5 AC Module System

SUNPOWER | FROM MAXEON  
SOLAR TECHNOLOGIES

# SunPower Maxeon 5 AC Module

SunPower Maxeon 5 Solar Panel

Enphase Microinverter



Enphase Enlighten™ Software

SUNPOWER | MAXEON 5 +



# Fundamentally different. And better.

You want to live up to your potential. To put your energy into the things you care about. To be at your best—even on the tough days.

Why should your home solar be any different?

Only the SunPower Maxeon 5 AC Module combines industry-leading solar panel technology with advanced microinverter technology from Enphase to maximise your roof's potential. The result? Greater reliability over your system's lifetime, with superior output in real-world conditions. Our system even wakes up earlier and stays on later than conventional home solar<sup>1</sup>, working as hard as you do.

Easy-to-use real-time monitoring lets you view your system's performance and environmental impact anytime, anywhere.

And it's all backed by the peace of mind that comes with 25 years of category-leading warranty coverage<sup>2</sup> and the professional expertise gained from 35+ years in solar.

Finally. Home solar that works harder. And smarter.

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## Powering Positive Change™

SunPower solar technology is designed and manufactured by Maxeon Solar Technologies, a global leader in solar innovation.

- 35+ years of solar experience
- **367,000** global customers
- Industry-leading R&D investment<sup>3</sup>
- **1,000+** solar patents<sup>4</sup>
- **11** solar performance world records since 2007<sup>5</sup>



# What is a microinverter?

A microinverter is a small electronic device that sits beneath each solar panel. Its main task is to convert the electricity generated by your solar panels from direct current (DC) into alternating current (AC) that you can use directly in your home or export to the grid.



## Powerfully Simple.

Powerful panels mean you'll need fewer on your roof. In the case below, just fifteen Maxeon 5 AC modules deliver the power of nineteen conventional panels.<sup>6</sup> This gives you a compact design, and space to easily expand your system if you electrify your car or home appliances. And with the microinverters elegantly hidden beneath each AC module, you won't need bulky string inverters on your walls. Sometimes less is truly more.

6.2 kW Conventional Panel + String Inverter System



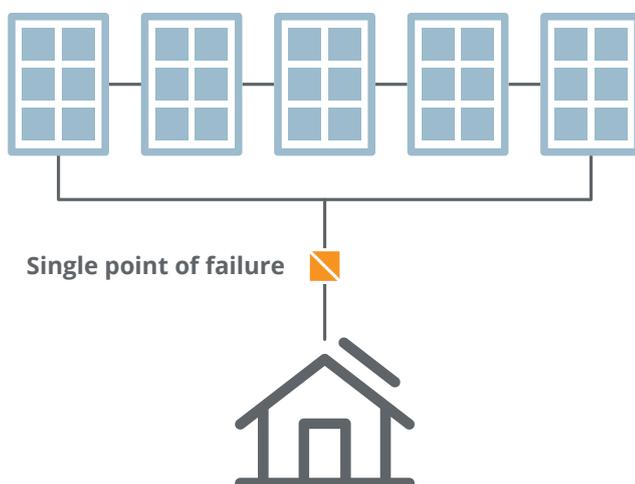
vs

6.2 kW Maxeon 5 AC Module System



Maxeon 5 AC maximises available space for future energy needs

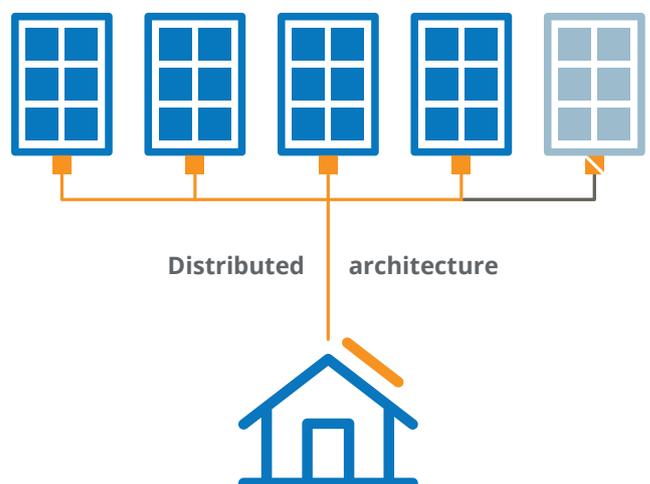
In a conventional setup, one inverter controls the output of a whole solar array, a design with a single point of failure.



**0%** System Power

if 1 string inverter fails

The Maxeon 5 AC Module distributes this risk across every panel through a far more reliable technology: Enphase microinverters, backed by a 25-year warranty.



**80%** System Power

if 1 microinverter fails



## Maximise your savings, and minimise your headaches.

SunPower Maxeon 5 combines powerful energy production, with the highest durability you can buy,<sup>7</sup> backed by an industry-leading warranty.<sup>8</sup> When combined with Enphase microinverters it is, quite simply, the most advanced solar technology for your roof.

Better technology. Better together.

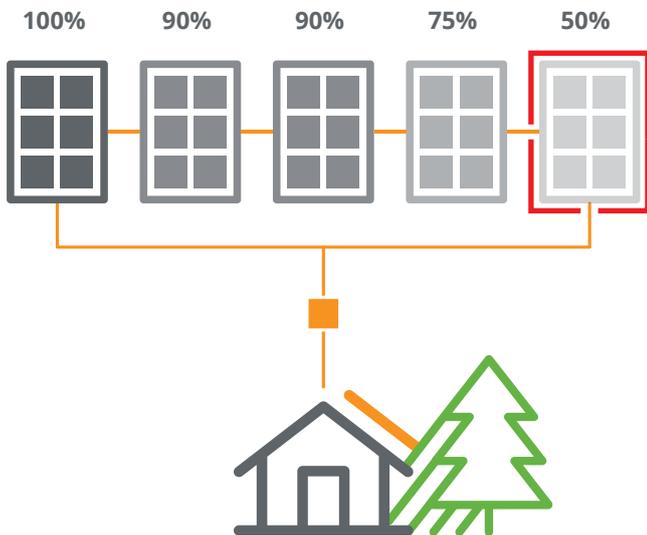
## Make the most of every moment.

Each Maxeon 5 AC module functions independently, making your whole system more reliable, and your rooftop more productive. With conventional technology, the system performs only as well as its weakest panel. This can dramatically reduce output due to shade or other real-world challenges, even from small debris such as leaves.



### String Inverter System

% of potential power

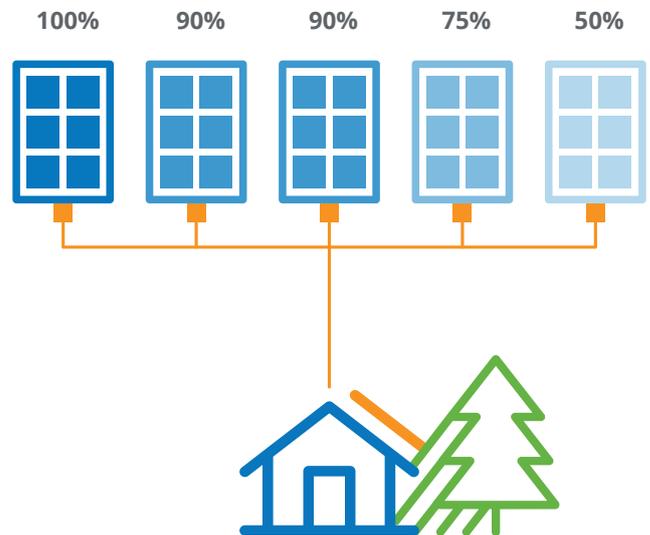


**50%** System Power  
(performs at level of weakest panel)

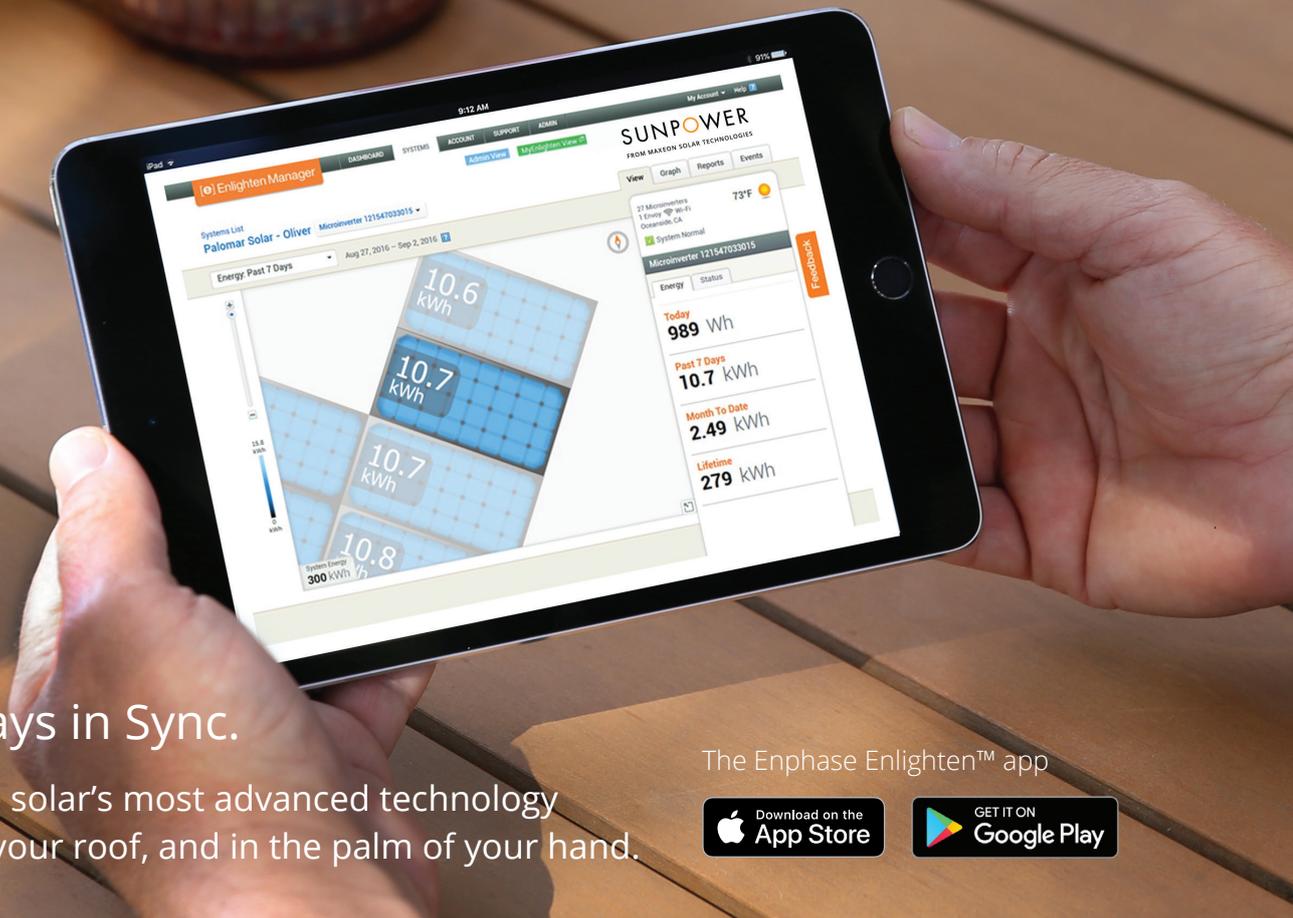
VS

### Maxeon 5 AC Module System

% of potential power



**84%** System Power  
(max energy harvest)



Always in Sync.

Home solar's most advanced technology  
—on your roof, and in the palm of your hand.

The Enphase Enlighten™ app



### Panel-level monitoring\*

Have confidence in your system performance through individual data on each panel.

\*Energy consumption data, financial savings data, and module level performance data may not be available to some customers.



### Real-time views\*

See your energy and environmental data on any connected device, and share your results on social media.  

\*Data provided, on average, in 5-minute intervals.



### Automatic software updates

Remain current on all utility rate updates and system improvements, hassle free.

## Remote technical support.

The Enphase Envoy™ communication gateway connects your solar array to the internet, facilitating live access to Data on system performance and critical issues.

The Envoy communication gateway sends out automatic alerts about technical issues to your installer and enables remote troubleshooting.



# The Best of Both Worlds.

Invest with confidence, knowing that the quality is proven for both SunPower Maxeon panels and Enphase microinverters. Each is uniquely designed for climate extremes, tested beyond industry standards, and proven by actual field results. Each is also backed by a category-leading warranty<sup>9</sup> from the manufacturer.<sup>10</sup>



**SUNPOWER**  
FROM MAXEON SOLAR TECHNOLOGIES

- Leading durability<sup>7</sup>
- #1 lowest degradation rate in the industry at 0.25%<sup>9</sup>
- 92% warranted power output in year 25 of operation
- 0.005% panel return rate<sup>11</sup>
- 40-year expected useful life<sup>12</sup>
- More than 3.5 billion cells, 35 million panels shipped
- 25 years of product, power and service warranty coverage<sup>13</sup>

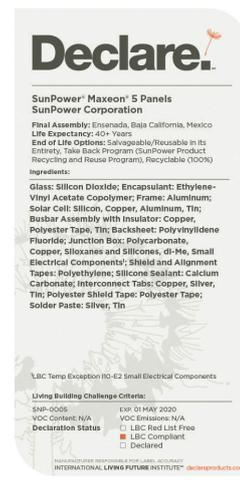


**ENPHASE**

- Tested for 1 million hours
- 0.05% microinverter return rate
- No moving parts or fans
- 28 million microinverters shipped
- Category-leading inverter warranty

## A Leader in Solar Sustainability.<sup>14</sup>

We believe that solar panels should be as clean as the energy they produce. SunPower Maxeon panels have helped pioneer new standards for solar industry transparency, responsible material use and recycling programs.



Landfill-Free Facility  
NSF P445



Declare and Cradle to Cradle Certified™ Bronze labels refer to Maxeon 5 DC panels.



## Ready to go solar?

As a leading designer of the world's most advanced solar panels, we know quality when we see it. That's why we partner with the finest local sales and installation partners who will customise your solar system to optimise for sunshine, building materials and local regulations. Our partners are members of your community, and understand the best way to achieve your unique energy and environmental goals.

[sunpower.maxeon.com](https://sunpower.maxeon.com)

- 1 SunPower Maxeon solar cells are more receptive to blue and red-light spectrum, enabling higher energy production in cloudy and low-light conditions. Enphase burst technology lets microinverters produce more at dawn, dusk, and in low-light conditions, for a longer solar day.
- 2 Solar warranty provided by Maxeon Solar Technologies. Claim based on datasheet review of websites of top 20 manufacturers per IHS, as of May, 2019. Microinverter warranty provided by Enphase. Claim based on Enphase competitive review, 2020.
- 3 Based on cumulative investment from 2007 through 2018. Osborne. "R&D spending analysis of 21 PV manufacturers." PVTech.com 2019.
- 4 Includes patents from U.S. and other global markets. U.S. Patents are exclusively licensed from SunPower Corporation to Maxeon Solar Technologies. Non-U.S. Patents are owned by Maxeon.
- 5 Source: Green, et. al. "Solar cell efficiency tables." Progress in Photovoltaics. Various years.
- 6 Fifteen SunPower Maxeon 5 415 W, 22.2% efficient, compared to nineteen Conventional Panels (330 W mono PERC, 19% efficient, approx. 1.64 m<sup>2</sup>). Both resulting system sizes are 6.2kW DC.
- 7 Jordan, et. al. Robust PV Degradation Methodology and Application, PVSC 2018.
- 8 Based on Oct. 2019 review of warranties on manufacturer websites for top 20 manufacturers per IHS 2019.
- 9 SunPower Maxeon claim based on datasheet review of websites of top 20 manufacturers per IHS, as of May, 2019. Enphase claim based on internal competitive review, 2020.
- 10 DC solar panel covered by SunPower Complete Confidence Warranty (25-year limited power and limited product warranty). Microinverter covered by 25-year limited product warranty by Enphase.) AC modules shall be connected to Enphase Monitoring hardware (ENVOY) to enable Enphase product warranty.
- 11 A Comparative Study: SunPower DC Solar Module Warranty Claim Rate vs. Conventional Panels." SunPower Corporation. 2019.
- 12 SunPower Maxeon panels expected useful life of 40 years. Source: "SunPower Module 40-Year Useful Life," Useful life is 99 out of 100 panels operating at more than 70% of rated power.
- 13 Service applicable only to PV Module originally installed in Belgium, France, Germany, Italy, The Netherlands, or the United Kingdom. Scope of warranty coverage varies by country. For more information about the warranty terms and conditions available in your country, visit [maxeon.com/legal](https://maxeon.com/legal).
- 14 SunPower Panels won the 2019 Sustainability Award from pv magazine, a solar trade publication. The award recognized that SunPower DC panels were made with the first manufacturing to achieve Cradle to Cradle certification, NSF certification for a landfill-free solar factory, product life expectancy and recyclability. Details can be found on [pv magazine's](https://pv-magazine.com) website.

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