



Get more power and safety for  
your home with Enphase solar

Enphase  
**25**  
year limited  
warranty





With Enphase solar, you're in control, and that's a powerful thing. You can save money. You can manage your own energy. You can be energy independent. But none of that matters if it's not safe. That's why Enphase is built from the ground up with safety in mind.



# Safe



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Enphase microinverters are commonly chosen for daycare centres and schools, since they meet even the strictest government safety requirements.

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## Works like the rest of your AC-powered home

Traditional rooftop solar systems generate high-voltage DC that can spark a fire if something goes wrong between your panels and the central inverter. With the Enphase IQ™ microinverter system, there is no dangerous high-voltage DC running across your roof, only the same standard AC that powers your appliances. We started with safety first when we designed Enphase solar, since that's what we'd want for our homes.

## Built-in rapid shutdown

Mandatory on all solar systems in the United States to reduce fire and electrocution risk, rapid shutdown provides a quick and easy method to de-energise solar panels to ensure complete safety for you and first responders in the event of an emergency. While not yet law in South Africa, Enphase microinverters can safely shut down automatically without the workarounds required for traditional inverters.

## 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.

# Smart

## A single app for everything

The Enphase Enlighten™ app (iOS and Android) gives you a real-time view of your energy production and consumption at a panel level. So, you can make informed choices about how best to use the energy your home generates.



## Powerful performance means lower electricity bills

Did you know that a traditional inverter solar system's output is only as strong as its weakest panel? This is because the panels are daisy-chained together like Christmas lights. With this setup, you can lose more than half your production if just a small section of panel is covered with shade or debris. With Enphase, each panel is fitted with its own microinverter to create panel-level independence and generate the most energy possible.

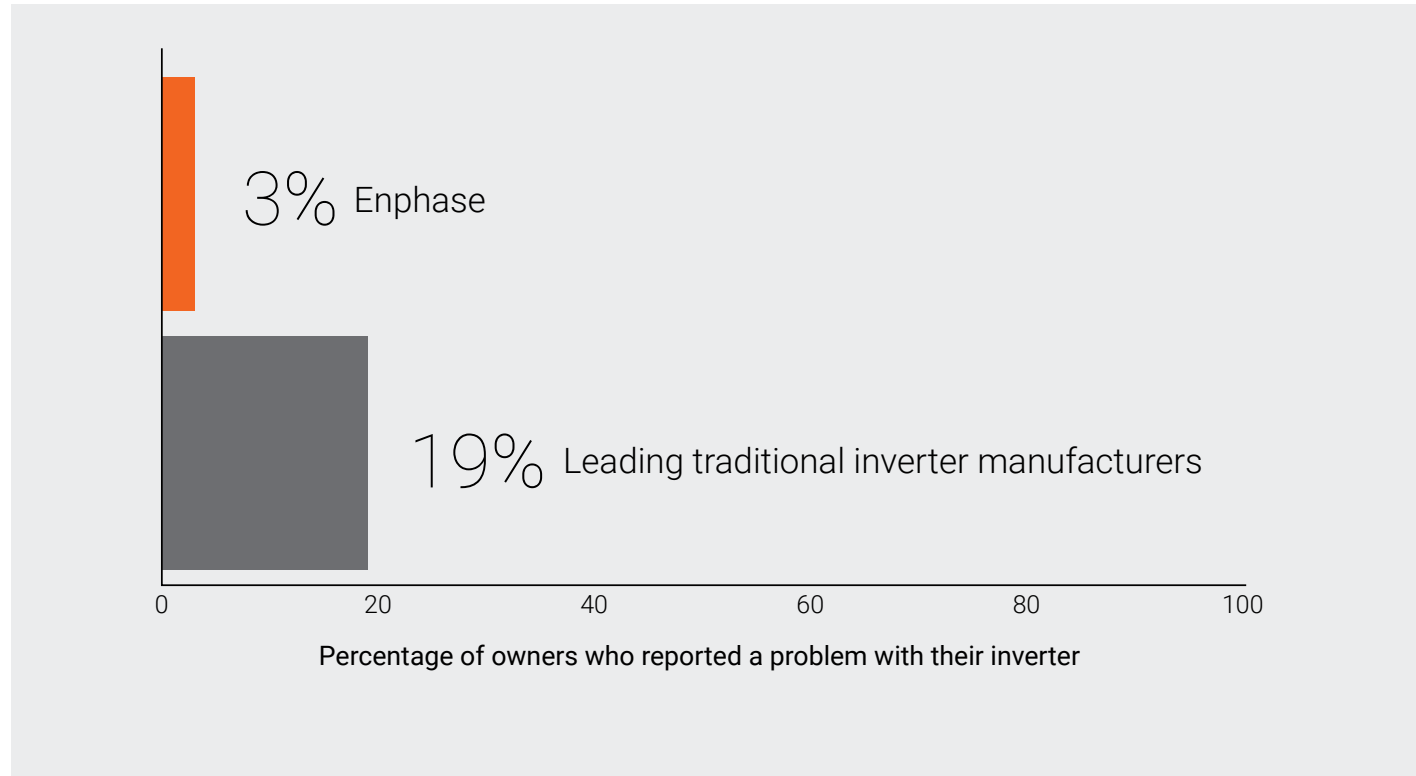
## Be ready for tomorrow with unparalleled flexibility

Enphase microinverters allow panel arrays to be installed across multiple roof areas and orientations. This level of design agility enables the maximum harvest of sunlight and means that your system expansion options are only limited by your roof space.

# Tough

In a CHOICE member survey on solar PV systems, only 3% of Enphase inverter owners reported problems. This is significantly lower than owners of the leading traditional inverter manufacturers.

Source: <https://www.choice.com.au/home-improvement/energy-saving/solar/articles/solar-power-survey-results>



## Own a system you can count on

South Africa's weather is no joke, especially in remote locations. With more than 1,000,000 hours of extreme environmental testing and an industry-leading commitment of less than 500 defects per million units manufactured, Enphase microinverters are at least 100 times more dependable than a smartphone. Choose a solar system that is built to last and thrive in the harshest of environments.

## No single point of failure

Unlike traditional inverter systems, where all the power from your panels runs through a single, central inverter, if a panel or Enphase microinverter stops working, the rest of your system will continue to function with minimal disruption. Your Enphase Envoy communication gateway will also automatically inform your installer and most cases issues can be fixed remotely, saving you days of downtime and the hassle of having to call out a technician.

## 25-year warranty

Enphase is obsessive about quality and stands by its products with some of the industry's strongest warranties. In South Africa, Enphase microinverters come with a 25-year warranty as standard.



# DC vs AC



## Traditional DC inverter systems

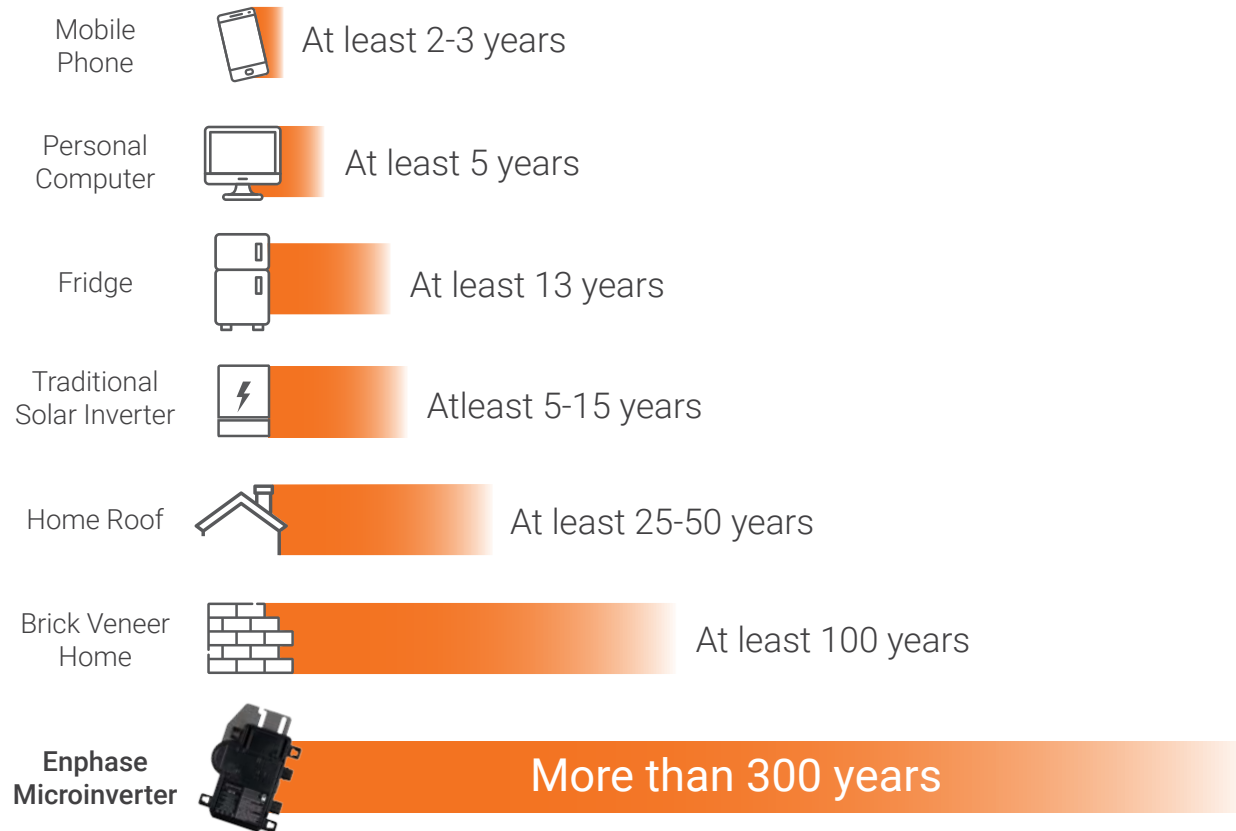
Traditional DC systems can generate up to 1,000 volts of dangerous high-voltage DC, which must run from your panels through your ceiling to the central inverter located on the side of your home. Even the smallest equipment failure, such as a damaged cable or a loose electrical connection, can cause a DC arc fault creating a serious fire risk.

## Enphase microinverters

Unlike traditional DC solar power inverters, the Enphase IQ microinverter system provides a complete AC solution that uses no high-voltage DC, ensuring a safe solar solution for your home. Other advantages of microinverter technology include more flexibility in system design, panel-level monitoring, and increased power production.

# Built to last

## Mean Time Between Failure (MTBF)



MTBF is not an indication of the actual service life of a product, but is rather an important marker in reliability engineering and has its roots in the aviation industry, where airplane failure can result in fatalities\*.

\* For details visit [go.enphase.com/au/mtbf](http://go.enphase.com/au/mtbf)

## Over one million solar installations

We've been perfecting safe, smart and tough microinverter technology for more than 14 years on over one million rooftops.



For Rural Fire Services Queensland (RFS), Enphase microinverters were the only choice.



# Safe, smart and tough.

Designed in California.



Contact an Smart Energy SA today  
[www.smartenergysa.co.za](http://www.smartenergysa.co.za)

