

The IQ8 Microinverter

The brains behind the solar panel



Enphase revolutionized the solar industry by pioneering a semiconductor-based microinverter that converts energy at the individual solar panel level, and, combined with our proprietary networking and software technologies, provides advanced energy monitoring and control. We distinguish ourselves from other solar inverter companies with our systems-based and high-technology approach.

Enphase IQ Microinverters are placed under each solar panel and work independently, so even if one stops, the power keeps flowing. They create the same low-voltage AC electricity that's already running throughout the home, increasing fire safety.



Seamless switching on or off grid.

IQ8, our most powerful software-defined microinverter ever, is powered by a proprietary, intelligent chip, that makes switching between on- or off-grid virtually seamless.



Sunlight Backup - an industry first.

With IQ8 Microinverters, keep your essentials - lights, fans, and phones - powered during daytime grid outages with no home battery required.



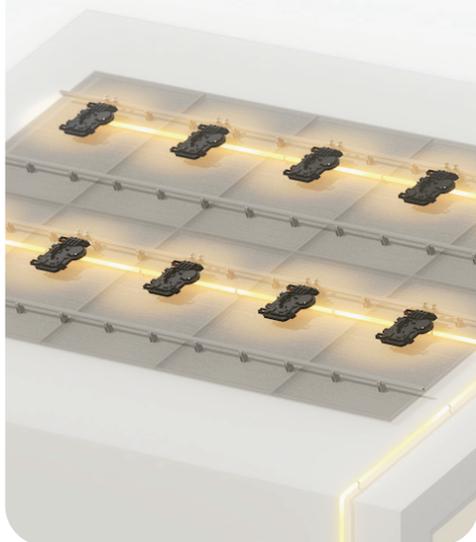
High performance in a small footprint.

Our highest-output microinverters ever, the IQ8 family of products packs more power into less space than other rooftop solar systems. The plug-and-play design means your system can scale as your home energy needs grow over the years.



Industry-leading reliability and warranty.

IQ8 Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.



IQ Microinverter advantages

Enphase Energy’s pioneering microinverter technology makes rooftop solar more productive, reliable, smart, and safe.

Today, more than 3.3 million homes in over 145 countries rely on approximately 63 million Enphase microinverters to gain access to solar energy.



Microinverter vs. string inverter

	Enphase (Micro)	Others (String)	Why Enphase
Continuous power during a daytime outage	Yes, with IQ8	No	IQ8 Microinverters power essential appliances such as lights, fans, and phones during daytime outages, even without a home battery.
Single point of failure	No	Yes	Independently functioning microinverters remove the single point of failure resulting in a more reliable solar system.
Limited warranty	25 years	10–15 years	A longer limited warranty means a better customer experience.
Rapid Shutdown compliance	No additional equipment needed	Additional equipment needed	Enphase microinverters simplify safety by including built-in Rapid Shutdown capabilities.
Module-level monitoring	Yes	No	Easily track production and quickly pinpoint issues with module-level monitoring.
Design flexibility	High	Low	Maximize rooftop space and adapt to design challenges with microinverters.
Electrical safety	Safe AC on the roof	High-voltage DC on the roof	We virtually eliminate the risk of an arc-fault fire on your roof by running only safe AC on the roof.
Modular	Yes	No	The modular microinverter design means you can quickly and easily expand your system as your needs grow.