

# IQ Microinverter advantages

Enphase Energy’s pioneering microinverter technology made rooftop solar more productive, reliable, smart, and safe when it was introduced 15 years ago. Today, more than 1.7 million homes across 130 countries rely on 39 million Enphase microinverters—and counting—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	With IQ8, power essential appliances—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.