

IQ9N Microinverter

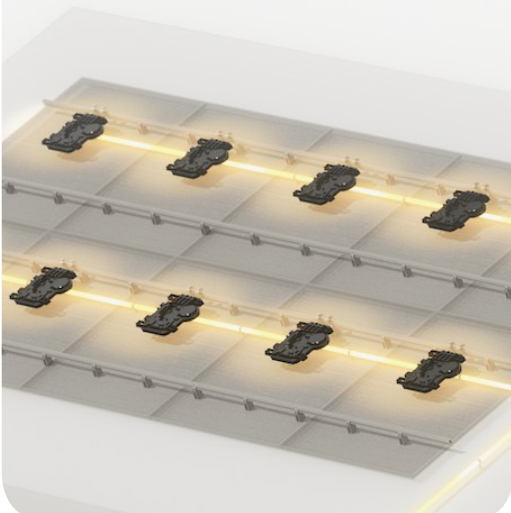
GaN-based architecture for greater efficiency and reliability

427 W | 98% peak efficiency*



Built with advanced Gallium Nitride (GaN) technology, IQ9N Microinverters operate cooler and more efficiently, ensuring superior long-term performance and reliability. By delivering more energy from the latest generation of solar panels, they help maximize production and make the most of every ray of sunshine throughout the system's lifetime.

Enphase microinverters are placed under each solar panel and work independently, so even if one stops, the power keeps flowing.



More sunlight converted, more energy.



Future ready solar

Compatible with panels up to 16A to harness maximum energy from every installation.



Capture every ray

98% peak efficiency* to capture maximum energy from every solar panel installed.



Peak performance

Engineered to run cooler, ensuring zero de-rating all year-round.



Scale anytime

Scale anytime — Expand any IQ6/IQ7/IQ8 system easily with IQ9N Microinverters.



Highly reliable

Handles sudden surges, ensuring solar installations stay protected.



Safer by design

Low-voltage AC design on the roof means safer, easier solar installations.

*97.95% peak efficiency rounded up to 98%

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Key Preliminary Specifications	IQ9N-A-INT
Maximum apparent power	427 VA
Nominal grid voltage	230 V
Nominal frequency	50 Hz
European weighted efficiency	97.44%
Min./Max. MPP Voltage	28/45 V
Max. input current	16 A
Ambient air temperature range	-40°C to 65°C

The Enphase Advantage

The Enphase System	Other String Inverter systems
Distributed Architecture: Microinverters keep power flowing — even if one fails	All-or-nothing: Single inverter failure can shut down the entire system
Module level monitoring: Easily track production and monitor issues in real-time	Extra components: Module level monitoring requires additional components for real-time insights.
Design flexibility: Adapts to any roof, lowering installation complexity	Rigid design: Limits roof layouts, complicating solar installations
Safer power: The same AC power as your home — no dangerous high-voltage DC	Greater fire risk: High-voltage DC can cause DC arc fault fires



Microinverters behind solar panels

Reliability you can count on

Every Enphase system is engineered for long-term performance, with industry-leading 25-year warranty. You’ll also get 24/7 system monitoring and customer support, so help is always just a tap away. It’s a system designed to power your home today — and evolve with you tomorrow.