

Siemens Solar Microinverter



Maximizing the power of the sun

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SIEMENS

Micro-inversion technology

What is a Microinverter?

The inversion process takes the DC voltage produced by the sun and converts this power into grid compatible AC voltage. A Microinverter is connected to each photovoltaic panel and converts the DC voltage immediately to AC voltage reducing the number of system components required.



The example below shows the exact same configuration of panels with a traditional string inverter (Figure 1) and micro-inversion technology (Figure 2). A leaf has covered one of the photovoltaic modules reducing the amount of power produced by that panel. Notice how with a traditional string inverter each

panel reflects the same watts produced. With micro-inversion this does not occur. If a leaf covers one panel, each of the other panels are connected to their own Microinverter and produces as a stand-alone power producing unit increasing the efficiency of the entire system.

Traditional Inverter

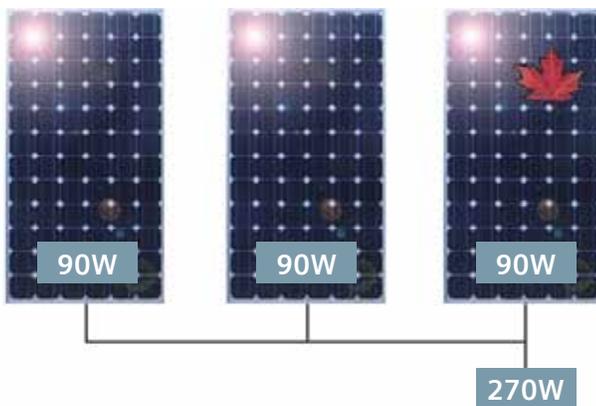


Figure 1

Microinverter

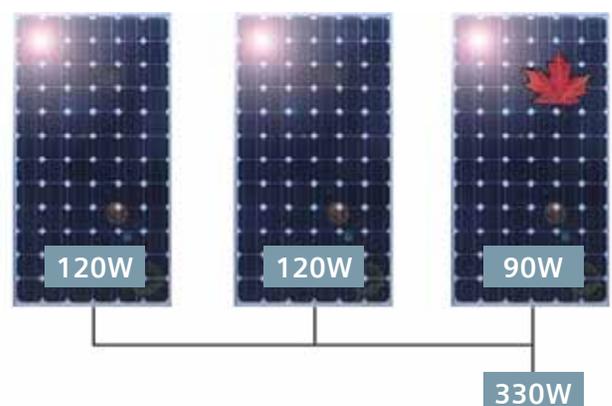


Figure 2

Siemens Microinverter benefits

No single point of failure

Each photovoltaic panel and Microinverter act as their own clean energy power producing unit, increasing system efficiency

Safe DC voltage levels

Low voltage DC provides a safe solution for residential and light commercial applications

Siemens Solution

Siemens provides the equipment necessary to maximize energy production

Web based system monitoring
and analysis module by module

Balance of systems and labor savings
with no string calculations and simplified wiring technology for an easy installation



Envoy Communications Gateway

- Collects and transmits data to Enlighten website
- Plugs into any standard AC outlet
- No additional wiring necessary
- Connects to broadband router



Enlighten monitoring software

- Module by Module Data Analysis
- Web based application for easy access
- Smart Phone application available



Trunk and Drop Cable

- Simplified wiring system reduces installation times
- Balance of Systems saving with less wire required
- Clean installations



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