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Can a solar inverter power a home?

Without a solar inverter, you wouldn't be able to use those solar panels to power your home. A solar inverter's job is simple: It converts the direct current -- the electricity generated by your solar panels -- into alternating current electricity that your appliances run on.

Which solar inverter is best?

CNET experts have compared the most popular solar inverters' specs, warranties, prices and more. The SolarEdge Home Wave Inverter is our top pick in 2025. It was the most efficient inverter we looked at, letting you use a larger percentage of the energy your solar panels generate. This translates to less and more power to use around the house.

What does a solar inverter do?

A solar inverter's main function is to switch DC power created by solar panels into AC power that's usable for your home appliances. They also collect and transmit valuable data to help you monitor the production and health of your solar system.

Which solar panel has a microinverter?

The Q.Tron AC module is actually a solar panel with a built-in microinverter. And, since we named it "Rookie of the Year" in our best solar panels for 2025 ranking, it should come as no surprise that we think they're the best new inverter on the block too. Q Cells is a well-established solar panel manufacturer.

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