



# Residential solar inverter reviews

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After reviewing the details of many prevalent solar inverters in the market, the SolarEdge Home Wave Inverter emerged as our favorite. Among all the inverters we assessed, it proved to be the most efficient, enabling you to maximize the energy produced by your solar panels. Additionally, SolarEdge offers a robust warranty and an application that has been well-received by its users.

Simply put, a solar inverter's primary function is to transform the direct current (DC) electricity that your solar panels produce into the alternating current (AC) that your household appliances require. Yet, not every solar inverter is identical. Picking the appropriate one for your home can be a challenge. Typically, the solar installer takes care of this decision. However, they often have multiple inverters to choose from. As you delve into solar energy, you might encounter several of these options.

Each inverter we've mentioned underwent a rigorous evaluation and was rated accordingly. Our evaluation methodology involved scrutinizing numerous inverter specifications and consulting with professionals and experts in the industry to discern the critical factors in choosing an inverter.

Our focus was solely on single-phase, grid-connected, and hybrid inverters for U.S. households. We excluded DC power optimizers from the assessment and rating of the string inverters discussed. Nonetheless, DC power optimizers are favored add-ons that can accompany your string inverter. It's essential to note that we did not conduct hands-on tests with any inverters mentioned.

While there's a limited selection of microinverters compared to string inverters, Enphase's IQ8 takes the lead in the residential microinverter segment. Each unit offers good efficiency and is backed by a 25-year warranty. However, Enphase lags in customer service and sizing options. Price-wise, they're on par with other market offerings.

Efficiency, Efficiency, Efficiency

The SolarEdge Home Wave Inverter stands out, achieving top scores in almost all categories.

It boasts the most impressive efficiency amongst residential inverters we've reviewed. Offered in multiple sizes and backed by a robust warranty, its accompanying app also has outstanding user reviews. A notable downside: the cost of SolarEdge inverters is on the higher side.

Tesla's solar offerings, including their inverter, can be best described as 'balanced.' It garners decent efficiency and app reviews. A standout feature is its unparalleled limited inverter warranty duration. However, its sizing options are limited and Tesla's customer service feedback leaves much to be desired.

Sunny Boy inverters, part of SMA's TL series, have been some of the best-selling solar inverters worldwide. For years, their German engineering made them the most reliable choice in an increasingly competitive market. This reliability was a major selling point, especially as the market became saturated with less reliable products.

Growatt shines as the leading hybrid inverter we encountered. Available in multiple sizes, it offers a decent warranty and efficiency. Notably, it is priced more affordably than its counterparts, which is intriguing since hybrids usually come at a premium. A downside is the less intuitive and occasionally glitchy app.

Choosing the ideal solar inverter is a tailored endeavor, varying based on specific needs and sites. Zeroing in on the 'best'; without a personalized assessment would be a challenge. Our list primarily features single-phase, residential inverters. We refrained from hands-on evaluations.

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