



# Solar powered inverter reviews

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Solar inverters are an essential part of every solar power setup. They're responsible for converting the DC electricity produced by solar panels into the AC electricity that most home appliances use.

Choosing the top solar power inverters required considering several different features. We first looked at what style each inverter model is, since this impacts efficiency and cost. We also considered output wattage and input voltage, which determines how you can use your inverter. Finally, we looked at factors like efficiency, ease of installation, and cost. You'll find reviews of each of our top solar inverters below. Keep reading for our buying guide, which explains everything you need to know about choosing the best solar power inverter for your solar array.

The AIMS Power 6,000-watt solar inverter is our favorite model on the market right now. It is incredibly flexible, with an input voltage range from 45 to 63 volts DC and a standard 120-volt output. Users especially appreciate that the built-in 60-amp battery charger is able to work with eight common battery technologies, including lithium-ion batteries. Plus, you can fully customize your solar and electrical system with this inverter since it can be switched between 50 Hz and 60 Hz outputs to adapt to any international electrical standard.

The inverter is generously equipped with safety and performance features as well. It will automatically alarm when the inverter or battery are overloaded or when the battery begins to overheat. It also has automatic short-circuit prevention and a built-in cooling fan to prevent overheating in the first place.

What impressed users most of all is the surge wattage this inverter delivers. The AIMS Power inverter is rated to pump out up to 20,000 watts from your battery over a 20-second period. In practical terms, that means you won't have any problems starting up a massive refrigerator or freezer with this inverter controlling your power delivery.

The only downside we can see to this unit is that it doesn't have any electrical outlets built into the inverter itself. That's hardly a dealbreaker for the vast majority of users, though, and it's fairly straightforward to wire your own appliance outlet from the inverter's breaker panel.

This pure sine wave inverter from Sungold Power is one of the best solar inverters for home use. It includes a few handy features that make managing your solar installation and balancing loads across your system significantly easier.

To start, the inverter can be switched between AC and battery priority. When in AC priority mode, the inverter will automatically draw power from the grid and use it to charge your battery. In battery priority mode, the inverter will continue drawing solar power from your battery even if a grid connection is available.

While the inverter is rated for up to 6,000 watts of continuous output, it's rated for an input voltage of just 24 volts. That may be a bit of a mismatch for some home solar systems, but it also provides a good alternative to the similarly designed 48-volt inverter produced by AIM Power.

Even better, users point out that this is one of the only split-phase inverters on the market that doesn't cost a fortune. This means the inverter is able to connect to inputs with two different voltages - for example, your solar panel array and the electrical grid.

This small but capable solar power inverter from Outback Power is designed for modular solar systems or for use as a microinverter. In three-phase mode, when the grid isn't connected, you can combine up to nine of these inverters to increase your total power output. With a grid tie-in, you can combine up to 10 modules. VFXR3648A inverters are stackable on top of one another, making it convenient to expand your system as new power demands arise.

If you are interested in combining multiple inverters, efficiency will be extremely important since any losses multiply. Thankfully, the VFXR3648A has a nominal efficiency of around 93% - that's not as high as some of the larger inverters we've seen, but it's pretty good. When you consider how small and lightweight these inverters are, the efficiency is downright impressive.

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