



Energy storage battery reviews 310 kWh

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Enphase's batteries are designed to be installed in bundles, creating a modular storage system where capacity and power output stack with each battery installed. This modular design of smaller batteries makes it easier for homeowners to get the capacity size that's "just right" for their home. Just keep in mind that you can't install the new IQ Battery 5P with Enphase's other batteries.

Interested in understanding the impact solar can have on your home? Enter some basic information below, and we'll instantly provide a free estimate of your energy savings.

Solar batteries are part of a complex home energy system that depends a lot on your individual home, needs and solar panels. This makes it difficult to do hands-on testing. This review is based on specs and information provided by Enphase online and an interview with Martin-Golis to get the most accurate and up-to-date information.

Enphase batteries function as an all-in-one AC-coupled system and are mainly known for their embedded microinverters. A few other components are needed to make this battery system work. Here's a quick look at the system components you can expect to have installed with an Enphase battery:

If you have solar panels, your battery system will include an IQ combiner component. The IQ combiner measures your energy production and consumption and provides an additional place to centralize some wiring. You'll be able to view your production and consumption data through the Enphase app. More details about Enphase's system design and components can be found on its website.

While these batteries are a bit on the smaller side, you'll be able to install multiple Enphase batteries to stack additional capacity. You can even mix and match the IQ Battery 3/3T and IQ Battery 10/10T models. You won't be able to mix and match newer generation battery tech (IQ Battery 5P) with older generation battery tech (IQ Battery 3/3T and IQ Battery 10/10T models). It's also important to note that all Enphase batteries are compatible with and without solar, meaning you can still install Enphase batteries as a home backup without solar panels.

In terms of power output, an Enphase battery by itself is pretty weak, with the exception of the IQ 5P battery. This battery shares the same continuous power output as the other batteries in Enphase's lineup (3.84 kW) but offers an impressive peak power output rating for its size (7.68 kW). To put this into perspective, the IQ 5P's peak power output is on par with a Tesla Powerwall's peak output (7 kW), which is a much larger 13.5 kWh battery.

The IQ Battery 3/3T and IQ Battery 10/10T models both have weaker power outputs when compared with other batteries of similar size. Power output does increase with additional battery installations. The more

batteries you install, the more power you can stack. If you have a larger home or a home that has a lot of large appliances, you'll likely need multiple Enphase batteries.

As far as efficiency goes, Enphase batteries are about average compared to the batteries we've evaluated. The IQ Battery 3/3T and IQ Battery 10/10T models both have a round-trip efficiency of 89%, with the IQ 5P having a slightly higher round-trip efficiency of 90%. This means that only 10% to 11% of your electricity is wasted on its way into battery storage. The average round-trip efficiency for solar batteries is about 90%.

The warranties on Enphase batteries are pretty standard for batteries. It's worth calling out the new IQ 5P's 15-year warranty. Most batteries come with a 10-year warranty, so we'll give the IQ 5P bonus points for having longer coverage. It has a lower end-of-warranty capacity guarantee. Here's a quick breakdown of the warranty details for each Enphase battery.

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