



Who makes enphase batteries

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See how we became the world's leading provider of microinverter-based solar, ...

One of the most common questions we are asked is "Should I install a battery with my solar panel system?" With rising concerns over power grid outages during extreme weather events, energy storage has become a more important piece of the solar puzzle. Here at Good Energy Solutions, we mainly install three different brands of solar batteries, Tesla, Enphase and Franklin. Which battery makes the most sense for your situation? In this article, we'll rundown the differences between all three battery brands, including capabilities, availability and stacking.

First let's start with the basics of solar batteries. To put it simply, they store excess electricity generated by solar panels. That stored energy can power your home when your solar panels aren't generating energy, including nights and cloudy days. They also can power your home when the power grid goes down.

Let's take a look at each battery and see how they stack up to each other. These three different batteries share a lot in common. All are AC-coupled, which makes them easier to install into an existing solar panel system. The three batteries are also designed to use primarily for emergency backup. Also, all three feature simple-to-use apps that allow you monitor your home energy system in real time and make changes to the way they dispense power throughout the day.

Tesla has designed this AC battery system for residential and light commercial use. It utilizes a lithium-ion battery that runs much quieter and cleaner than a conventional gasoline back-up generator. There's no exposed vents that expel heat or visible wires making it a safer solution for households with kids or pets. The Tesla Powerwall 3 is compatible with new and existing solar panel systems. It can also work as a stand-alone home battery without solar panels. Tesla batteries can be installed with most brands of solar panels. You don't need Tesla solar panels to install a Powerwall.

The Upside: The Powerwall has become the biggest name in solar batteries since launching in 2015. It sports a sleek design and mounts nicely to the wall. Multiple Powerwalls can be stacked together to boost storage capacity and power more appliances throughout your home or business. Also, the Powerwall is one of the least expensive solar battery options on the market. Unlike the other two batteries that we offer, the Powerwall 3 can be DC or AC coupled.

The Downside: Its lower price has created a waitlist for the Powerwall. Depending on when you order one from Tesla, it could take months before your Powerwall arrives. Also, the Powerwall requires multiple electric boxes and additional parts to meet local electrical codes. These add-ons take up space, limiting your ability to work them into a workable design scheme while leaving you fewer options for concealment.

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Here are the Powerwall's technical details:

Although they are one of the most recognizable brands in the solar industry for their line of microinverters, Enphase also offers an excellent alternative to the Tesla Powerwall. The company's most popular solar battery option, the IQ Battery 5P, rivals the power output of larger batteries at half the capacity size. Enphase has designed its line of batteries to be installed in bundles, creating a modular storage system where capacity and power output stack with each battery installed. This makes it easier to size a battery system for your specific needs. The Enphase IQ Battery 5P seamlessly integrates with the Enphase Enlighten monitoring system, giving you real-time insights into your energy usage and storage.

The Upside: Enphase is one of the most trusted companies in the solar industry. They back up their reputation with one of the best solar battery warranties on the market with 5P. Enphase IQ batteries can also be paired with gas-powered generators for extra backup protection and flexibility. The batteries' lithium iron phosphate chemistry is safer and lasts longer than other competitors. Their smaller energy output comes with a lower cost, making them an excellent choice for backing up circuits that cover important smaller electronics like medical devices or sump pumps.

The Downside: Enphase batteries have a lower power output individually than others on the market. These need to be stacked in order to provide enough backup protection for the biggest electrical appliances in your home.

Here are the IQ's technical details:

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