



# Battery enphase

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The IQ Battery 5P all-in-one AC-coupled system is powerful, reliable, simple, and safe. It has a total usable energy capacity of 5.0 kWh and includes six embedded grid-forming microinverters with a 3.84 kVA continuous power rating. It provides backup capability, and installers can quickly design the right system size to meet the customer needs.

As subject matter experts, we provide only objective information. We design every article to provide you with deeply-researched, factual, useful information so that you can make informed home electrification and financial decisions. We have:

Incorporated third-party data and information from primary sources, government agencies, educational institutions, peer-reviewed research, or well-researched nonprofit organizations.

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If you've perused your solar options, chances are you've heard of Enphase Energy. As the most frequently quoted inverter and battery brand on the EnergySage Marketplace, Enphase is known for its reliability and strong reputation.

The IQ battery series - including the IQ Battery 3/3T, IQ Battery 10/10T, and the latest IQ Battery 5P - offers a mix-and-match, modular flexibility, allowing you to build a storage system that most closely meets your needs. These moderately priced batteries offer solid specs and warranties, however, you can find a more powerful battery elsewhere.

Easy to add to an existing solar panel system: Enphase batteries are AC-coupled, making them the easier and cheaper option for retrofit installations if you don't already have a hybrid inverter.

Stackable design: Enphase batteries come in multiple sizes, allowing for more flexibility when it comes to building overall capacity. You can "stack" multiple batteries to fit your unique energy needs.

Space constraints: Stacking batteries may allow for more customization, but if you don't have the space to install multiple modules, you might need to pass on Enphase.

Enphase offers three lines of solar batteries: the IQ Battery 3/3T, IQ Battery 10/10T (the "T" stands for thin - these versions share the same technical specs but are just a little thinner), and most recently, the IQ Battery 5P.

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The Enphase IQ Battery series provides usable capacities of 3.36 kWh, 5.0 kWh, and 10.08 kWh, making them relatively small batteries but ideal for "stacking" multiple units together to customize your total energy storage capacity. While you can mix-and-match the IQ Battery 3/3T and 10/10T, you can only stack the newer IQ Battery 5P with other 5Ps.

**Battery chemistry:** How electricity is stored in a battery. Most batteries today use Lithium Nickel Manganese Cobalt Oxide (NMC), Lithium Iron Phosphate (LFP), or Lithium Titanium Oxide (LTO) - all of which are lithium-ion chemistries.

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