

Evolve Home Battery System FAQ's



Why should I get a home battery system in addition to solar?

Protect your home from power outages

When the grid goes down, your power will go out even if you have solar. You need an energy storage system in order to keep using your solar power during a grid outage. The **Evolve** home battery storage system provides clean and reliable backup power for short or long duration power outages, keeping your lights on, refrigerator running, phones and computer charged, and making sure you stay connected.

Future proof your home

Evolve future proofs your solar and protects your home from rising utility rates, time-of-use charges, and reductions in net metering benefits.

Maximize your solar investment

Evolve optimizes your solar investment by storing your solar energy to be used when energy rates are high, maximizing the benefits of producing your own power with solar and saving you more money every day. Save even more money with **Evolve** during power outages by staying connected, allowing you to continue with your workday and keeping power on to prevent food loss.

How does my solar and battery system work during a power outage?

When the grid goes down, **Evolve** automatically islands your solar PV system from the grid, creating your own home power station. **Evolve** manages your solar panels during the day when they are producing power and stores the excess energy that is left after powering your home. At night, when your solar panels are not producing energy, **Evolve** discharges to power your home until the solar begins producing energy again in the morning. **Evolve** automatically reconnects to the grid when the power outage ends.

Will the battery system help lower my energy bill even more than solar alone?

Yes. **Evolve** is charged by your solar and discharges to power your home at the times of the day when energy is most expensive, further reducing your energy bill. Your solar is usually not producing power during the hours of the day when energy is most expensive. **Evolve** allows you to take advantage of using your self-generated power at any time of the day to avoid expensive peak energy use rates and time-of use charges.

When the grid goes down, how long will the battery keep my power on?

This is dependent on the custom sizing of your **Evolve** and which essential home activities you choose to backup. With proper sizing, **Evolve** paired with solar creates a low-cost continuous backup source to keep your home running through short and long duration power outages.



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When the grid goes down, do I need to manually switch the battery on?

No, **Evolve** will automatically detect the power outage and will turn power back on within a few seconds.

Why would I choose a home battery system instead of a generator?

Reliability

During emergency situations, a generator is not always reliable as gas lines may go down and fuel could be inaccessible. **Evolve** is powered by an unlimited resource- the sun- through your solar system. Your solar energy is stored during the day to be used at night, providing a highly reliable and continuous backup power source.

Zero Emissions and Noise

Evolve provides clean, emission-free backup power without the noise pollution caused by generator.

Cost savings

Evolve can be used daily to reduce or eliminate the energy you use from the grid and to avoid expensive peak rates and time-of-use charges. Unlike a generator, **Evolve** pays for itself.

If I have solar plus a home battery, do I still need to be connected to the grid?

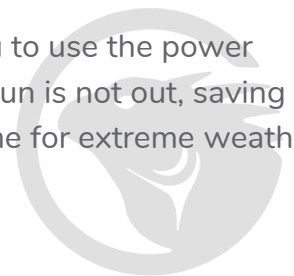
Yes. A grid connected battery storage system allows you to become more energy independent, producing and storing your own energy at your home, while using the grid as a secondary energy source. Grid connection also allows you to take advantage of net metering programs to receive credits when you produce excess energy after powering your home and fully charging your **Evolve**.

Will a home battery system back up my entire home when the grid goes down?

Battery storage systems are designed to back up essential home activities such as lighting, refrigeration, wifi and other communication, and outlets to charge phones and computers. The **Evolve** system has expandable storage capacity that is customized to fit the size of your solar PV system and your specific backup needs, keeping your essential home activities up and running during short or long duration power outages.

Will I use the battery every day or only when the grid goes down?

Evolve is designed to be used daily to optimize your solar investment, allowing you to use the power generated from your solar when energy rates are most expensive even when the sun is not out, saving you money every day. You will have the option to reserve extra power ahead of time for extreme weather events or when your utility informs you of an upcoming power outage.



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Is a battery storage system safe to put on my home?

Yes. The **Evolve** system is based on the safest lithium battery chemistry available. Lithium iron phosphate (LFP) is non-combustible, non-toxic, and non-hazardous with superior thermal and chemical stability. Evolve is UL certified for safety and compliant with local fire codes.

Will I be able to monitor and control my battery system?

Yes, **Evolve** comes with a comprehensive user interface. The web-accessible user interface allows you to monitor your solar production, your home energy use, and the amount of energy being stored and discharged with **Evolve**. The user interface allows you to easily adjust the amount of energy reserved for emergencies and to monitor your home energy from anywhere.

Where is the battery system installed on my home?

How much space does the battery system take?

Evolve is designed for indoor or outdoor use and is wall-mountable. Most homeowners elect to have **Evolve** installed inconspicuously outdoors near other home appliances or in the garage. Please see photo for approximate size of the **Evolve** system.



Is **Evolve** environmentally-friendly?

Yes. Aside from the environmentally-friendly maximizing your use of renewable energy, lithium iron phosphate (LFP) is cobalt-free, does not contain ethically and environmentally concerning mining elements, and is recyclable.

Can I add a battery to my existing solar PV system? What if my solar panels are 10 or 20 years old?

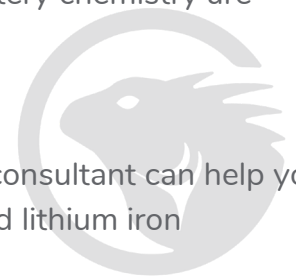
Yes, **Evolve** is designed to pair with any brand solar inverter and is compatible even with older solar PV systems.

How long will a home battery system last?

Evolve comes with an industry standard 10-year warranty and is designed for 6,000+ cycles which is more than 16 years when used daily. Comparable battery systems using NMC battery chemistry are expected to last 3,000+ cycles.

How much does a home battery system cost?

The cost of **Evolve** depends on the custom size needed for your home. Your solar consultant can help you determine the size you will need for your specific needs. **Evolve** is the lowest priced lithium iron phosphate (LFP) home battery storage system available.



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What rebates or incentives are available to help cover the cost of the battery system and am I eligible?

The Federal Investment Tax Credit (ITC) offers 26% of the cost of **Evolve** back in the form of a tax credit. In California, the Self-Generation Incentive Program (SGIP) offers a rebate of 20-100%. If you live in a high fire threat area, you may be eligible to receive a free **Evolve**. Your solar consultant can help you find other local or state incentives and programs where they are available.

How does **Evolve** compare to other brands of home battery system?

Evolve is the lowest priced LFP home battery system on the market, using safe, reliable, and durable lithium iron phosphate batteries. **Evolve** is designed around Eguana’s proprietary power electronics technology and is designed to last twice as long as comparable NMC-based battery systems. **Evolve** offers the ultimate in cost-effective flexibility and customization with expandable storage capacity up to 42 kWh.



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