



# 85 kWh battery solar kit

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These kits contain the components you need to install a fully self-sufficient off-grid solar system, including solar panels, an off-grid inverter, and mounting materials. We'll also customize your kit with a battery bank sized to meet your storage needs.

The most common off-grid system configurations range from 5kW to 21kW. However, energy usage varies for every household, so the best approach is to design a custom off-grid solar kit based on your specific energy usage patterns.

Your off-grid solar system is your home's primary power source, so it's important that your system is designed to handle full-time usage. Our DIY off-grid solar kits are designed to be safe, compatible with your energy needs, and easy to install.

An inverter converts DC power from your solar panels into AC power, the format used by most household appliances. Our string inverter kits include several solar panels wired into a central inverter unit.

Your inverter size is based on your peak power requirements, the amount of electrical loads you want to run at the same time. If you need to run several power-hungry appliances simultaneously, you'll need a larger inverter to cover your peak power demand.

Our off-grid solar kits come with IronRidge XR roof mount or ground mount racking materials. IronRidge racking materials are tested and proven to perform in extreme environments. Plus, their products are fully certified, code compliant and backed by a limited 20-year warranty.

Ground mount kits require an additional metal support structure, not included with your off-grid kit. (Don't worry, we'll provide a shopping list with everything you need to complete the installation.)

Batteries store the energy you produce during the day, so you can draw power from your battery bank to run appliances when the sun isn't shining. The size of your battery bank determines how much energy you need to use at night, or on overcast days where there's not much sunlight available. Many off-grid residents add a gas generator to their off-grid solar systems as a backup energy source in the event that there are several cloudy days.

Off-grid solar systems use deep-cycle batteries, deep-cycle Lithium Iron Phosphate Technology (LifeP04) batteries which are designed to be discharged and recharged gradually. These are sized to cover your energy usage for one night, then recharge from solar during the day, completing one charge and discharge cycle over a 24-hour period.



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There are two different types of batteries used for off-grid solar systems: lead-acid and lithium batteries. Lead-acid batteries have a shorter lifespan (about 5 years) and require regular maintenance while lithium batteries have a longer lifespan (about 10 years) and don't require much maintenance. Today, nearly all off-grid customers today choose lithium batteries.

GoGreenSolar is run by experienced solar veterans, packaging solar kits since 2006. We're a local American-grown solar company based in Orange County, California, and our work has been featured on CBS, NBC, and USA Today.

We do more than ship you a box of parts. Our team provides expert support with installation, permitting, rebates, and interconnection. Everything we do is designed to make the process of going solar as quick, painless, and affordable as possible.

Contact us for free full report

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