

Overview

In this guide, we've tested each option for real-world runtime, charging flexibility, port selection, and ease of use, so you can choose a solar generator for home backup that fits your home, budget, and outage plan. Solar generators, also known as solar power stations, are an eco-friendly way to harness energy from the sun to run electric appliances and charge digital devices. They're great in an emergency, but they're also essential tailgating and camping equipment. Solar options can generate power even when other fuel sources are. After testing these solar generators at home, these picks stood out: Jackery HomePower 3000 for dependable all-around backup, EF ECOFLOW Solar Generator DELTA 2 Max for a strong mid-range balance, Jackery Solar Generator 2000 v2 with 2x200W for compact everyday essentials, EF ECOFLOW Solar. Stay powered during power outages and outdoor adventures this holiday season with a solar power generator. Here are CNET's tried and true top picks. But, not all solar generators are created equal.

Solar power generation small home test



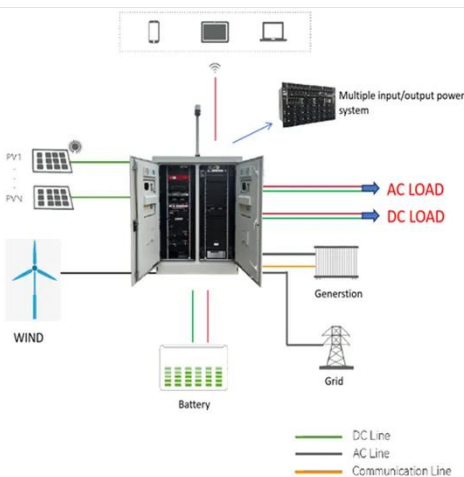
The best solar generators for 2026, tested and reviewed

Whether you're camping, living off-grid, or want backup power for your house, the best solar generators help you tap into sustainable energy.

Application scenarios of energy storage battery products

The 6 Best Solar Generators of 2026

To pick the best solar generators, we tested some of these power stations for charging capacity, ease of use, weight, and different use cases. Some picks were reviewed by Popular ...



Best Solar Generators in 2025: Expert Tested and Reviewed

Our team of solar experts has tested over two dozen of the latest and greatest portable power stations and portable solar panels on the market in 2025 to find the best solar generators for every type of ...

I tested solar generators for

months. These are the two I

A solar generator can be a lifesaver during natural disasters or power outages. Here are the two we recommend buying for both small- and large-scale use.



The Best Solar Generators of 2025

Once considered overly expensive and underpowered, solar generators are getting more affordable and useful each year, so we put eight popular models to the test to see how well they could

Best Solar Generators

Read our guide below for more of our top picks, and check out our generator buying guide for more information on finding the best solar power generator for your home.



Best Solar Generators of 2026

To find out if a solar generator will be able to power any given device, you'll need to know how much power the device draws and how much power the solar generator can push out.



8 Best Solar Powered Generators of 2025

We rated and reviewed the best solar-powered generators for ...



 LFP 48V 100Ah



12 Best Solar Generators for Home Backup in 2026 (Tested & Reviewed)

Discover the 12 best solar generators for home backup in 2026, tested, compared, and reviewed for real emergency use.

8 Best Solar Powered Generators of 2025

We rated and reviewed the best solar-powered generators for home backup during power outages, including models from Generac, Jackery, and more.



Best Solar Generators for Your House [2025]

We studied more than 100 solar generators from 10 different brands and to make it easier for you to choose a solar generator, we've divided our list into three categories so you may pick what ...

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