



Battery backups for power outages

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Popular Science started writing about technology more than 150 years ago. There was no such thing as "gadget writing" when we published our first issue in 1872, but if there was, our mission to demystify the world of innovation for everyday readers means we would have been all over it. Here in the present, PopSci is fully committed to helping readers navigate the increasingly intimidating array of devices on the market right now.

Our writers and editors have combined decades of experience covering and reviewing consumer electronics. We each have our own obsessive specialties--from high-end audio to video games to cameras and beyond--but when we're reviewing devices outside of our immediate wheelhouses, we do our best to seek out trustworthy voices and opinions to help guide people to the very best recommendations. We know we don't know everything, but we're excited to live through the analysis paralysis that internet shopping can spur so readers don't have to.

The number of blackouts and power grid failures continues to increase. Extreme weather events and aging grid infrastructure mean you need to be ready for the power to go out in your home. A backup battery solution for your home is one of the most efficient ways to keep the lights on when a blackout comes.

The best home power backup battery solution depends on what appliances you need to run during an outage. Whether a targeted backup or a whole-house solution makes more sense depends on your home, budget, and electricity consumption needs.

The EcoFlow DELTA 2 Portable Power Station is a medium-capacity plug-and-play power station suitable for extended power outages. Depending on your needs, you can expand the power output and storage capacity from its initial 1 kWh rating to 2 kWh or 3 kWh.

The higher capacity ratings allow you to power most appliances and electronic devices through an extended blackout. The EcoFlow DELTA 2 powers up quickly using AC (household) electricity -- an industry-best 0-80% capacity in just 50 minutes. Like all EcoFlow portable power stations, it can also recharge using solar panels.

The EcoFlow DELTA Pro Portable Power Station is a higher capacity option than the EcoFlow DELTA 2, starting at 3.6 kWh and expandable to 25 kWh. The EcoFlow DELTA Pro can run multiple high-wattage appliances and expand to a whole house backup power solution. It provides the plug-and-play options of the EcoFlow DELTA 2 but with a much higher capacity to power more of your appliances and systems for longer.

The EcoFlow DELTA Pro is at the heart of the EcoFlow home ecosystem and is the best option for meeting whole house backup power needs. Despite its enormous power output and storage capacity, the PRO remains



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portable. With suitcase-style wheels and a handle, the 99 lb (45 kg) EcoFlow DELTA Pro is the ultimate in compact power solutions.

For more extended power outages (and greater energy security), the advanced EcoFlow Whole Home Power Backup Solution combines two EcoFlow DELTA Pro portable power stations with a double voltage hub. With a combined output and storage capacity of 7200W, you can fully power the average home for 1-2 days. This solution connects to your existing home circuit panel and electrical wiring using a transfer switch or power input (if available).

You can recharge the entire system within hours between power outages, ensuring you're ready the next time the lights go out. Like all EcoFlow's portable power stations, you can also recharge the EcoFlow DELTA Pros using solar panels.

The EcoFlow Smart Home Ecosystem also uses EcoFlow DELTA Pro portable power stations and an EcoFlow Smart Home Panel that integrates directly with your home circuits. The setup enables you to monitor your usage and maintain better control over how quickly you're consuming your backup storage capacity.

The Smart Home Ecosystem lets you know where more power gets distributed, giving the ability to ration use for some appliances and keep the focus on delivering power for the essentials. You have the tools you need to manage the process."

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