

Lithium battery portable backup power supply



Overview

After testing over 140 power stations and evaluating charging options, capacity, charge time and other features, we've narrowed down our top picks that can serve your needs, ranging from portability to whole home backup. Which is the best overall portable power station?

. Check each product page for other buying options. Made with chemicals safer for human health and the environment. Manufactured on farms or in facilities that protect the rights and/or health of workers. Need help?

. Portable power stations can deliver power when you need it most, whether during power outages or just for an off-grid adventure. Each model must have a pure sine-wave inverter, so it can safely run a motored appliance or a critical device like a CPAP machine. It delivers safe, quiet, fume-free power and charges to 80% in 2 hours from a 120V outlet with included USB-C cable and 100W adaptor. Power your adventures and home essentials with confidence using our high-capacity 296Wh Portable Power Station. This compact and reliable solar generator is built around a premium Class-A lithium-ion battery (20Ah/14.8V) that maintains over 80% capacity even after 1000 charge cycles. Deals are selected by the CNET Group commerce team, and may be unrelated to this article.

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Energy storage(KWH)

102.4kWh

Nominal voltage(Vdc)

512V

Outdoor All-in-one ESS cabinet



The Best Portable Power Stations of 2025 , Tested by Bob Vila

We tested 22 portable power stations for over a year to find the best models for home backup, camping, road trips, and emergency power.

[Learn More](#)

Amazon : Lithium Portable Power Station

Giomre Portable Power Station, 297Wh Backup Lithium Battery Generator with 600W AC Output and 120W Fast Charging, Solar Generator for Outdoors Camping, Travel Emergency, Home Blackout



[Learn More](#)



10 Best Portable Lithium Power Stations of 2026 - ...

Discover the top 10 portable lithium power stations of 2025 that will keep you powered up anywhere--find out which ones made the cut!

[Learn More](#)

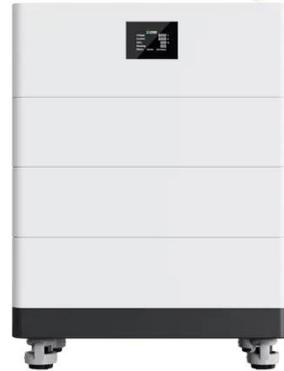
The 3 Best Portable Power Stations

of 2026 , Reviews by Wirecutter

If you're going off the grid or prepping for an emergency, we've found the best backup batteries for every need. Our top pick is the EcoFlow River 2 Pro.

[Learn More](#)

High Voltage Solar Battery



The 3 Best Portable Power Stations of 2026 , Reviews by Wirecutter

Built in protections provide safety, better operation and long battery life for many cycles of maintenance-free power, all backed by a 2 year limited warranty and lifetime Westinghouse technical ...

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The 7 Best Portable Power Stations for Outages and Outings

Bring big backup power with you with these expert-recommended portable power stations, which can store enough power to charge electronics, appliances, and more.

[Learn More](#)

INTEGRATED DESIGN
EASY TO TRANSPORT AND INSTALL,
FLEXIBLE DEPLOYMENT



Portable Solar Generator 300W, 296Wh Lithium Battery Power ...

Buy Portable Solar Generator 300W, 296Wh Lithium Battery Power Station with Pure Sine Wave AC Outlet, USB QC3.0, for Camping, Travel, and

Emergency Backup at Walmart

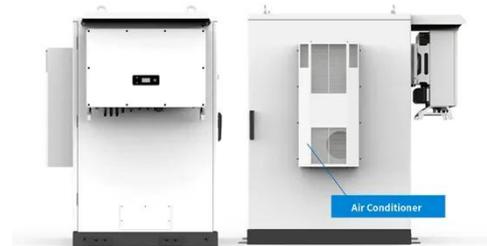
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Westinghouse 400W 275Wh Lithium-Ion Portable Power

Built in protections provide safety, better operation and long battery life for many cycles of maintenance-free power, all backed by a 2 year limited warranty and lifetime Westinghouse technical ...

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Best Tested Portable Power Stations in 2026

Stay powered on the go with the best portable power stations out there -- tried and tested by CNET's experts.

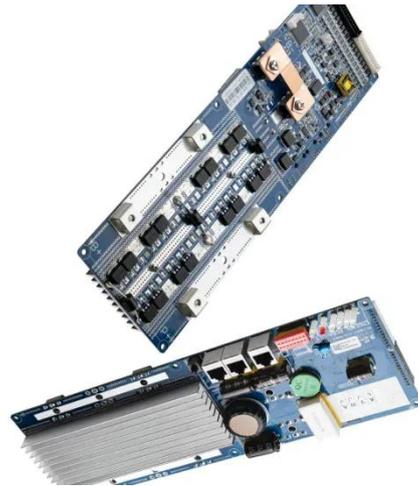
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Best Lithium Portable Power Stations for Camping, Travel, and ...

Discover powerful, lightweight, and reliable lithium portable power stations perfect for outdoor adventures, home backup, and emergency situations. This

guide features top options ...

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LiFePO₄ Battery, safety

Wide temperature: -20~55°C

Modular design, easy to expand

The heating function is optional

Intelligent BMS

Cycle Life: > 6000

Warranty: 10 years



Best Lithium Ion Battery Backup Up [Updated: January 2026]

I've tested several, and the TalentCell 27000mAh UPS Backup Battery with USB-C PD truly impressed me with its massive capacity and versatile output options. It powers a wide range of ...

[Learn More](#)

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