

## SolarInnovate Energy Solutions

# Outdoor power supply 5 kWh or more



## Overview

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How much power can a portable power station hold?

While a particular power station might claim to hold 1,000 watt hours, the actual amount of usable power you can get out of it is a different story. The best portable power stations also have an onboard computer that shows you how much energy is left in your unit, as well as how much power it's currently using.

What are the best portable power stations?

To help you decide, I tested the efficiency, in a variety of scenarios, of the best portable power stations from Jackery, Oupes, EcoFlow, Anker, Goal Zero, Greccell, Bluetti, Dakota Lithium, Lion Energy, Vtoman, and Oupes. [↓ Jump to the Rest of the Field](#) [↓ What to Know Before Purchasing a Portable Power Station.](#)

Are portable power stations worth it?

Portable power stations are more powerful and cost effective than ever before. And, thanks to advances in lithium-ion battery technology, they're also lighter and more compact. Whether you've been dreaming of van life or are building out your emergency kit in advance of that next blackout, there is a power station that will meet your needs.

What spec should you consider when buying a power station?

Whatever the reason you are purchasing a power station, the most important spec to pay attention to is watt hours, which is a measurement of how much energy the power station can hold. While a particular power station might claim to hold 1,000 watt hours, the actual amount of usable power you can get out of it is a different story.

How much power do you need for camping?

The answer to this depends largely on what you intended to do with it. If all

you want is backup power for your family's phones while camping over the weekend, you can get away with something relatively small — 200 watt hours would be more than enough.

How do I choose the right portable power station size?

If all you have is a basic wattage number, say for a light bulb, typically that can serve as the watt hour number. For instance, if you are trying to power a 40-watt light bulb for one hour, it will use 40 watt hours. When choosing the right portable power station size for your needs, tack about 30 percent on to account for power loss while in use.

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