

Solar battery pack camping

The Goal Zero nomad 20 is a flat and highly portable solar charger designed for backpackers and campers who want to travel light but need something more than a basic 5W panel. Half-a-metre wide when unfolded and weighing less than a laptop, it has an adjustable kickstand for aiming it directly towards the sun when placed on the ground. The rugged plastic frame has an attachment point on each corner, so you can strap it to a backpack or secure it firmly in place wherever it needs to be.

The Forclaz solar panel SLR 500 is a 10W solar charger with a single USB port, ideal for keeping battery packs topped up while on the move or camping. A respectable power output places this versatile panel somewhere in the middle of the range, delivering more energy than a small trickle charger but less than a larger and more expensive solar panel.

The Ecoflow 220W is a dedicated solar panel that produces roughly ten times the wattage of the next best entry in our list. This does make it less portable, but also way more useful for charging the specialist batteries needed to power small appliances at campsites, off-grid rental lodges, caravans, and for emergency home backup should your electricity ever fail.

This ultra-thin 5W solar panel is an all-in-one solution and, unlike other solar chargers in our list, has an integrated 2,200mAh battery pack embedded on the back. That's about enough to charge your phone once, which is all you need in an emergency.

A folding solar charger with 28W output in optimal skies, this four-panel BigBlue solar panel can recharge three low-draw, 5V devices at the same time through its three USB-A ports. Powerful enough to slow-charge tablets and other high-drain mobile devices, this solar charger has a flexible design that's useful for hanging from your back as you walk, from your tent as you camp, or from a window frame for household power. It comes with carabiners for attaching it to a rucksack or frame.

This is a 25,000mAh battery pack with a fold out four-panel solar cell, which produces enough photonic juice to trickle-charge the pack's power reserves over time. These super-portable chargers are limited by physics, that old killjoy, so don't expect the rinky-dink panels to kick out enough energy to be able to run a laptop or survive entirely off-grid. They'll charge the battery pack to full given a few days of bright, sunny weather.

If your car battery has a tendency to run dry when left idle for too long, you need a solar-powered car-battery maintainer. Even in the photon-averse British weather, a solar panel affixed to the inside of your windscreen can trickle enough charge into the battery to keep it refreshed and ready to go.

The sun is finally making its tentative return, which means garden parties, picnics in the park and - most thrillingly of all - the prospect of harvesting free electricity from the sky using one of the best portable solar



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panels.

While the heavy-duty solar panels you might install on your roof can help power everything from your washing machine to your portable air conditioner, smaller solar panels are perfect for keeping electronics like laptops, phones and tablets charged up while camping or hiking in the great outdoors.

Coupled with a portable power station, some of the more powerful panels in our list can be used to keep garden sheds, polytunnels or off-grid campsites thrumming with a limited supply of free electricity, even once the sun goes down.

Read more: The complete guide to solar panel home installation

Advances in technology mean today's solar panels are smaller, lighter and more efficient than ever. Chargers that were once too big to carry can now be folded down to fit inside a travel case or hang from the back of your pack while hiking. So long as you've got enough sunlight, the best solar chargers can indefinitely extend the life of your phone, your headphones, and even your laptop.

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