Best solar power stations 2024

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The 5 best solar power stations in 2024, chosen by experts

Whether you’re dealing with regular power cuts or you enjoy going camping while having some of the creature comforts of home, having a good solar power station can make a big difference. On the bright side, there are a ton of options out there for pretty much any need, and while it might feel a little bit overwhelming at first glance, it’s actually not that bad. In fact, we’ve looked around and picked some of our favorite solar power stations for various needs by drawing on our own experiences in tech and commerce to make sure you get the bast bang for your buck.

Jackery makes some of the most well-known and recognizable solar power generators, so it’s no surprise that theJackery Explorer 1000 made the top of our list. It has a lot of things that make it a solidly balanced option for many, from the capacity it has to the price tag it comes with. The 1000-watt capacity it can manage is quite a lot, and it can charge most things you can think of except, potentially, something like a microwave or a space heater that can go well over 1,000 watts. Even so, it can power a wide range of devices which is always a good thing.

As for capacity, you get 1,002Wh out of it, although in practical usage, it’s only 85% of that capacity, which is pretty standard since most brands cap it at around that amount of capacity, which does help a bit with longevity. Either way that still gives you around 851Wh to play with, which means a 100-watt device can run for eight and a half hours before the Jackery loses charge. Oh, and the best part is that it has pass-through charging, so you can absolutely charge the Explorer 1000 while using it, turning it into a UPS of sorts.

Speaking of charging, the Explorer 1000 has an absolute ton of ports for you to work with: three AC outlets, one USB-A, one quick-charge USBA-A, two USB-C PDs, and one car outlet. There are also two input slots for charging: one for a typical DC input that you can use with a wall outlet or a car, which should take eight and 14 hours, respectively, and a solar panel input. The latter is great if you combine it with two of Jackery’s Solar Saga 100, which can do 100 watts of charging each on a clear day, and will recharge the Explorer 1000 in about six hours or so, which is excellent.

Having something small and relatively portable is great if you only need to power a few small things for a couple of hours, but if you have somewhat more heavy-duty needs, like powering a whole house, then the EcoFlow DELTA Pro is the way to go. It’s pretty massive, but that also means that it has a massive capacity of 3,600Wh, which is probably more than the average household would use in a day, but is the perfect option if you get regular electricity cuts and need emergency power for a few days. Even better, you can expand the system by adding more of the Delta Pros, with an upper limit of 25,000 Whs, when you combine six of them, although the actual available capacity is 80% for Ecoflow, so keep that in mind.

As for wattage, it’s a very respectable 3,600 watts, with the ability to go up to 4,500 watts with Ecoflows X-Boost technology, which is probably more than enough to run several different devices in your home, including potentially ACs or washing machines. We don’t really think you’re likely to be using a washing machine in an emergency or backup power situation, but it’s a nice option to have if you’re dealing with a week-long power cut. Also, much like the capacity, you can expand the wattage with additional units up to a maximum of 7,200 watts, so it really is more than enough to power a whole home if you want to go that route.

When it comes to charging, you have several options, such as charging through a wall outlet with up to 1800-watts, which should take about three hours at that capacity. You can, of course, also charge with solar panels with a combined max input of 1600 watts, which will also see it charged, in an ideal situation, in about three to four hours. The bundle that we’re linking with the button below includes the DELTA Pro, as well as one 400-watt solar panel, so it will be slower, but there are a lot of bundled options at EcoFlow, so be sure to check them all out.

Having a good solar power generator doesn’t mean you have to spend an arm and a leg, especially if you don’t need something super-powerful that can handle a whole house. The Bluetti EB3A, as it’s so creatively called, is a perfect example of that, being something relatively small and portable that you can get for less than $300 at MSRP, and often time less than $200 if you wait for a good deal. Of course, you do give up some capacity in the exchange, with it only having 268Wh, although honestly, even that’s not too bad since it can charge your average phone 20 times or a laptop four times.

Where the Bluetti EB3A really shines, though, is in the capacity to be charged from solar energy, with its internal MPPT controller able to support up to 200 watts of charging. That will bring it up to 80% in about an hour and a half, assuming ideal weather, meaning that you could potentially use this all day long. Of course, if you want to use a more traditional wall charger, you can go up to as fast as 430-watt charging, which should fill it up in an hour. Either way, you can charge it to full capacity pretty quickly, and if you are mostly using it for phones, tablets, and laptops, you could very likely use it all day long with solar charging.

Speaking of devices, the Bluetti EB3A can handle 600 watts of output, which isn’t as much as other solar power generators here, but it’s good enough for the basics, and since it’s made to be portable, that’s what it’s aimed at. As for ports, you have nine to work with two AC outlets, two USB-A, one 100-watt USB-C, two DC551 ports, and a car port. You’ll notice that there’s still one missing, and that’s because the last and most unique port is the wireless charger, which isn’t something you’ll find in any other solar power station here and is a neat addition for those who have phones that can do wireless charging.

As for the Yeti 1500X itself, it has a pretty good capacity at 1,516Wh, so it sits in a solid middle-ground when comparing a lot of various solar power generators. In a more practical sense, it really is very well-suited for camping or other outdoor activities that might take a day or two since it can power a 35-watt mini fridge for 44 hours or 3o-watt speakers for 50 hours, plus it can do 30-watt recharges of a 50-watt laptop. That’s

not to say it isn’t good for home use as well, especially given that it can run an average 71-watt fridge for 21 hours or a 65-watt CPAP machine for 24 hours. It’s versatile but probably leaning more towards outdoorsy types of activities.

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