

SolarTech Power Solutions

How much battery is left in the outdoor power bank



Overview

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It only takes one dead phone battery to make you realize the importance of a power bank for camping. Whether it's snapping a picture of the local flora and fauna, setting an alarm for your sunrise hike, or pulling up directions for the drive home, it's essential that you have enough juice to last.

Most power banks last 3 to 5 years or 300 to 1000 charge cycles, depending on their battery type, quality, and usage habits. But what exactly does that mean?

Charge cycles refer to the number of times your power bank can be charged and discharged before its battery capacity degrades significantly.

We've researched more than 40 power banks over the last four years, and tested 25 of the most promising battery packs on trail to bring you this guide. Whether your charging needs are extensive or you just need a simple battery to top up your phone every once in a while, our expertise will help you.

Similar to laptop and smartphone batteries, power banks also have a certain number of charge-discharge cycles before the device loses its capacity. Generally speaking, a power bank's lithium-ion batteries will decrease to 80% capacity after 500 cycles, while others will experience the same.

The reason you have to replace your power bank after 3-5 years is its battery. Power banks, just like any other rechargeable battery has a certain number of charging cycles. High-quality power banks have up to 600-1000 charging cycles, while low and medium-quality power banks have 300-500 charging.

I've tested multiple portable power banks in remote locations, and the top performers include the Jackery Explorer 1000 v2 with 1070Wh capacity for high-demand devices, the GRECELL 300W station offering 230.88Wh with efficient MPPT solar charging, and the compact P201 providing 148Wh with multiple.

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