Power charging station for phones

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Meanwhile, a 10,000mAh battery can give today"s flagship phoness two full charges. A 20,000mAh battery can charge two phones twice, or a phone twice and a tablet once. Some power banks have enough juice to power laptops. Of course, a higher capacity often translates to a heavier, larger, and more expensive battery.

In the end, it"s best to assess your typical needs before buying. If your phone hits the red zone by mid-afternoon and you only need enough juice to get you to the end of the workday, a 5,000mAh battery should be plenty.

Many batteries also still include a standard USB-A port (output). This is for plugging in USB-A-to-Lightning or USB-A-to-USB-C cables for charging your iPhone or Android device. In many cases, the USB-C port for charging the battery itself functions as an output as well. Some batteries even include built-in output cables that save you the trouble of worrying about another wire.

Larger batteries with higher capacities might include many ports to support input and multiple outputs simultaneously. For example, you may see two USB-A or two USB-C ports.

Another factor to consider is how quickly a power bank can charge your device. Battery output is measured in voltage and amperage. Amperage (or current) is the amount of electricity that flows from the battery to the connected device, while voltage is the amount of potential energy. Multiplying volts by amps gives you wattage, the measure of total power. To make devices charge faster, manufacturers either vary the voltage or boost the amperage.

Today"s devices support a wide range of rapid-charging technologies, such as Qualcomm Quick Charge, USB Power Delivery (PD), or proprietary fast-charge systems like OnePlus" SuperVooc.

The most common phones (those in Apple"s iPhone and Samsung"s Galaxy lineup) support charging rates of up to 45W. It"s best to look for batteries that get as close to your phone"s maximum rate as possible.

Pass-through charging is another feature to consider; with it, you can charge your device and a portable power bank simultaneously. That"s convenient if both your phone and backup battery are running on empty. You shouldn"t encounter any safety issues if the manufacturer of the portable battery you buy advertises pass-through charging as a feature, but the power output to your phone or tablet might be slower in this mode.

Wireless charging has become popular because it allows you to power up compatible devices without a cable. Qi is the dominant standard for compatible Android phones (up to 15W), while Apple iPhones rely on MagSafe charging (up to 25W). iPhones will also charge wirelessly on Qi chargers (7.5W) and Qi2 chargers (15W).

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Some battery makers have built Qi or MagSafe-compatible wireless charging into the surfaces of their portable batteries. Such batteries mean you can leave the cables at home.

If you often forget to carry your backup battery when you need it most, consider a dedicated battery case instead. These cases combine the portability and protection of a case with additional battery capacity to keep your phone topped off at all times.

There are several drawbacks. First, they have limited additional capacity. Second, they are limited in terms of the number of phones they support (mostly iPhones, Galaxies, and Pixels). Third, you can"t charge much else with them. Stand-alone chargers might also allow you to charge a smartwatch or wireless headphones.

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