



Lithium battery charging time calculator

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Use our battery charge time calculator to easily estimate how long it'll take to fully charge your battery.

Tip: If you're solar charging your battery, you can estimate its charge time much more accurately with our solar battery charge time calculator.

3. If the calculator asks for it, enter your battery voltage or charge voltage. Depending on the combination of units you selected for your battery capacity and charge current, the calculator may ask you to input a voltage.

5. Optional: Enter your battery state of charge as a percentage. For instance, if your battery is 20% charged, you'd enter the number 20. If your battery is dead, you'd enter 0. (If you're unsure, here are some ways to check your battery's state of charge.)

6. Click "Calculate Charge Time" to get your results.

For those interested in the underlying math, here are 3 formulas to for calculating battery charging time. I start with the simplest and least accurate formula and end with the most complex but most accurate.

Formula: charge time = battery capacity ? charge current

The easiest but least accurate way to estimate charge time is to divide battery capacity by charge current.

However, battery capacity can also be expressed in milliamp hours (mAh), watt hours (Wh) and kilowatt hours (kWh). And your battery charger may tell you its power output in milliamps (mA) or watts (W) rather than amps. So you may also see the formula written with different unit combinations.

And sometimes, your units are mismatched. Your battery capacity may be given in watt hours and your charge rate in amps. Or they may be given in milliamp hours and watts.

In these cases, you need to convert the units until you have a "matching" pair -- such as amp hours and amps, watt hours and watts, or milliamp hours and milliamps.

For reference, here are the formulas you need to convert between the most common units for battery capacity and charge rate. Most of them link to our relevant conversion calculator.

Contact us for free full report

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