

Battery charge rate 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.)

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.

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 milliamperes (mA) or watts (W) rather than amps. So you may also see the formula written with different unit combinations.

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