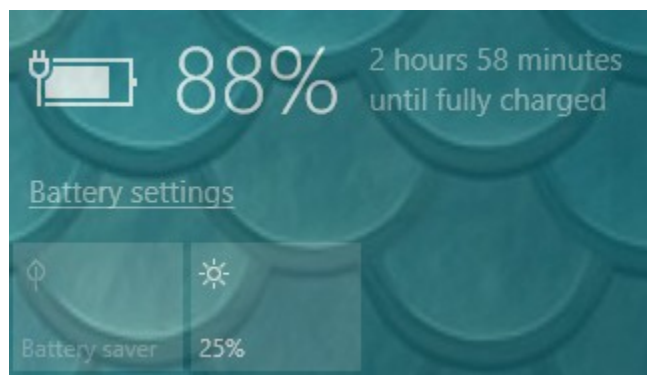


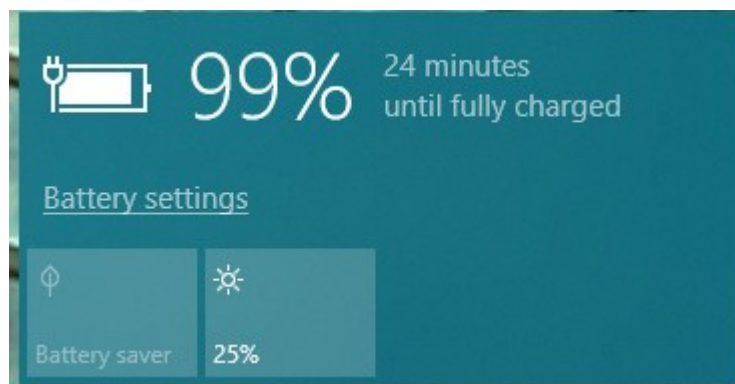
Windows 10 laptop battery documentation

This document goes over general documentation of my experience with battery performance and activity while using Windows 10 across 2+ different laptops (from 2016 <month><day> to 2020 July 8th) excluding 2 defective laptops. This data is not able to be backed up yet, and I can no longer retrieve new data, as I have not used Windows 10 since 2020 July 9th (when I switched to Ubuntu 20.04)

- 1) The battery saver can be enabled at 100% battery, and can last all the way down to the beginning with little tweaking (typically, you can only start it at 95% or lower automatically, but manually, you can start it at any time)
- 2) The battery can act sporadic and give ridiculous estimates, like this:



or this:



Both images came from an unstable day in 2018.

- 3) I can't remember how long it took for Windows 10 to go from 99% to 100% battery right now
- 4) Windows 10 becomes extremely unstable once it reaches 25% battery, and starts dropping sporadically. It can go from 24% battery to 5% battery in just a matter of minutes
- 5) Battery saver cannot be enabled when the device is plugged in
- 6) Depending on the outlet power source, it is normal for the battery to suddenly rise from 95% to 100% instantly, and immediately drop to 95% battery upon unplugging
- 7) No other notes

Other important battery advice

For Lithium Ion batteries

- 1) Lithium batteries degrade over time. Do not buy a replacement battery while your current battery is in perfect health, as the backup battery will degrade/rot in storage, then by the time you need to use it, it will not work very well/at all.
- 2) Based on general advice, it is recommended to not let your battery drop below 20% and not charge above 80% this is best for the batteries health. If you can't follow the step of stopping every charge at 80%, you can at least plug your device in when it gets low (for example: lately, always plug mine in at 23-29% battery)
- 3) MacOS 11.0 (Big Sur) and subsequent versions (MacOS 12.0 Monterey) have a built-in feature to limit battery discharge at 20% and battery charge at 80%. I don't know of any other operating system that forces this rule (Ubuntu says it does, but it actually doesn't, as I have used my device with less than 11% battery before)

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