

How to Calibrate Your GivEnergy Battery

Over time, your battery's reported State of Charge (SoC) can drift slightly from its true value. Calibration helps the system improve SoC accuracy so that percentage readings better reflect the battery's actual charge level.

GivEnergy batteries support two types of calibration:

- **Soft Calibration** – Performed through normal charging and discharging.
- **Full Calibration** – Activated via a button in the GivEnergy Portal.

Soft Calibration (User-Performed)

A soft calibration helps the system refine upper and lower charge boundaries. This can improve accuracy if the percentage looks slightly incorrect.

To perform a soft calibration:

1. Allow the battery to **fully discharge** through normal use.
2. Once empty, allow it to **fully recharge to 100%**.

This process helps the BMS sync its readings with the actual energy stored. It is safe to perform any time and may resolve small SoC discrepancies.

Full Calibration (Portal-Based)

A full calibration forces the system to re-evaluate its internal energy model. This is stronger than a soft calibration and is used if the percentage appears significantly inaccurate or if instructed by support.

To run a full calibration:

1. Log in to the **GivEnergy Portal** on a web browser.
2. Open the **My Inverter** page.
3. Select the **Battery** settings or Remote Control panel.
4. Click the **Calibrate Battery** button (if available for your model).

The system will prompt you if any conditions need to be met before calibration begins.

When Should I Run a Calibration?

- Your battery percentage looks incorrect.
- Your two batteries show different SoC values.
- Your installer or GivEnergy Support requests it.

If Problems Persist

If calibration does not correct the SoC reading, collect screenshots and system details and contact GivEnergy Support for further investigation.

<https://givenergy2025.zohodesk.eu/portal/en/kb/articles/how-to-calibrate-your-givenergy-battery>