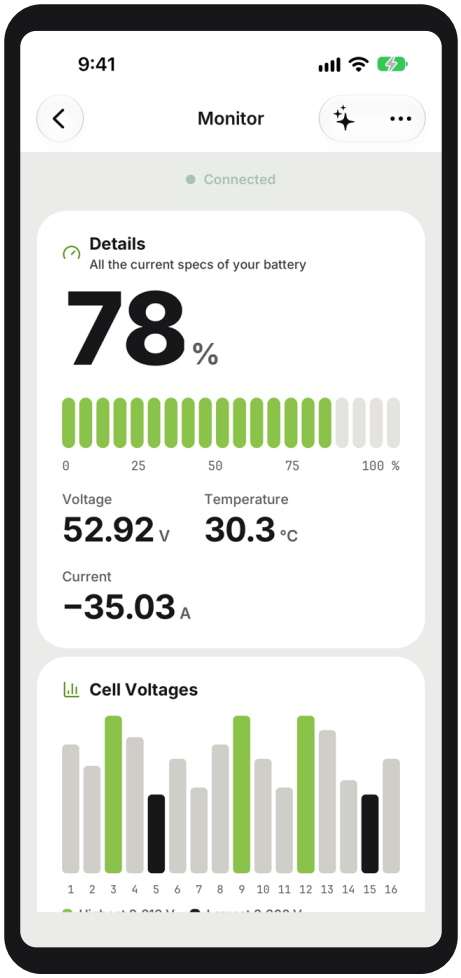
Reading the app

What the dashboard shows — state of charge, voltage, current, cells, temperatures, alarms — and how the history is built.

When you connect to a battery, Battery Monitor opens its **Monitor** page. The pill at the top says **Connected** and pulses each time the battery answers, so you can see the link is alive even when nothing changes.



Monitor

Details

Value	What it means
SOC (state of charge)	How full the battery is, in percent, as the battery management system (BMS) estimates it.
Voltage	The whole battery's voltage, in volts.

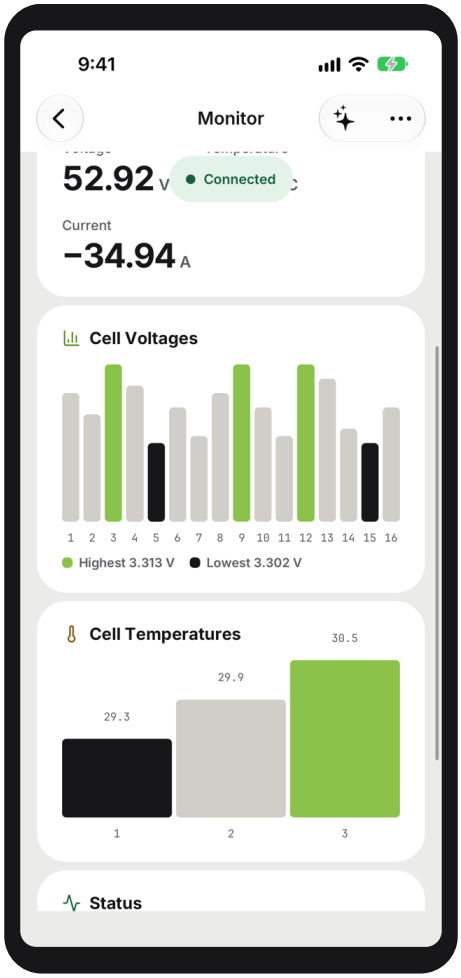
Current	How much current flows, in amperes: positive (+) while the battery charges, negative (−) while it discharges.
Temperature	The hottest of the battery's temperature sensors, in °C.

> **Note**
> The state of charge is an estimate: the BMS counts the charge going in and out, and recalibrates it when the battery is fully charged. After many partial charges it can drift a little; a full charge brings it back.

Cells

Your battery is made of cells connected in series. **Cell Voltages** shows one bar per cell, in volts with three decimals. Cells the BMS is balancing are marked. In a healthy battery the cells sit close together, especially when it is full. Cells that stay far apart while the battery rests, neither charging nor discharging, are a reason to open a support case.

If the battery has more than one temperature sensor, **Cell Temperatures** shows each of them.



Cells

Status

- **Cycles**: how many full charge cycles the BMS has counted. The warranty counts these.
- **Charge FET** and **Discharge FET**: the two electronic switches inside the battery, **ON** or **OFF**. The BMS turns one off to protect the battery, for example charging stops when it is too cold to charge. They are shown here; you can't switch them from the app.

Alarms

When the BMS protects the battery, a banner shows **Error Detected** with the reason:

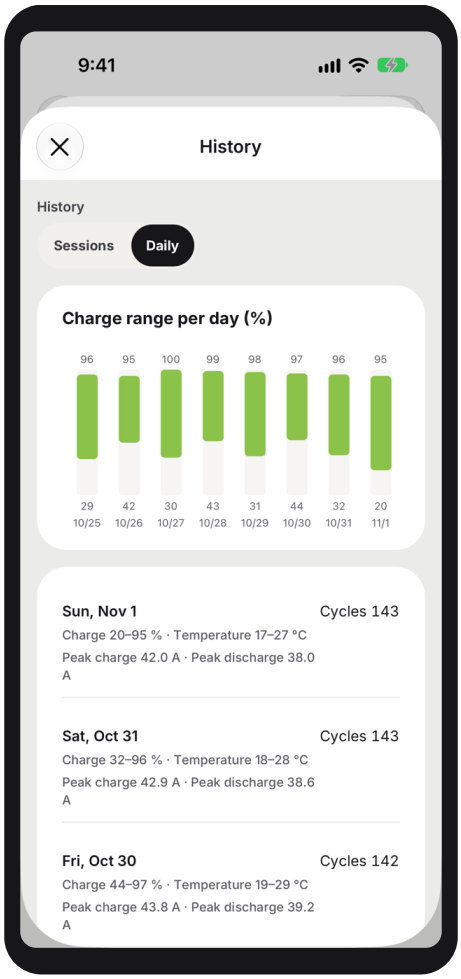
Alarm	What the BMS is protecting against
Cell Voltage Too High / Too Low	One cell is over- or under-charged.
Pack Voltage Too High / Too Low	The whole battery is over- or under-charged.
Charge Temp Too High / Too Low	Too hot or too cold to charge.
Discharge Temp Too High / Too Low	Too hot or too cold to discharge.
Charge / Discharge Current Too High	More current than the battery is built for.
Short Circuit Protection	A short circuit on the terminals or in the wiring.
Charge / Discharge FET Temperature Too High	The battery's switches are overheating.
AFE Acquisition Module Failure, FET Adhesion or Breaker Failure	A fault inside the battery's electronics.

Every alarm clears by itself once its cause is gone: the battery cools down or warms up, the load or the charge current drops, or the battery is charged. An alarm that keeps coming back is a reason to open a support case.

> **Danger**
> If the battery is swollen, hot, smoking or smells, disconnect it if it is safe to do so, keep clear, and don't charge or use it. Then contact us.

History

Signed in (not as a guest), open **ï→ History**.



History

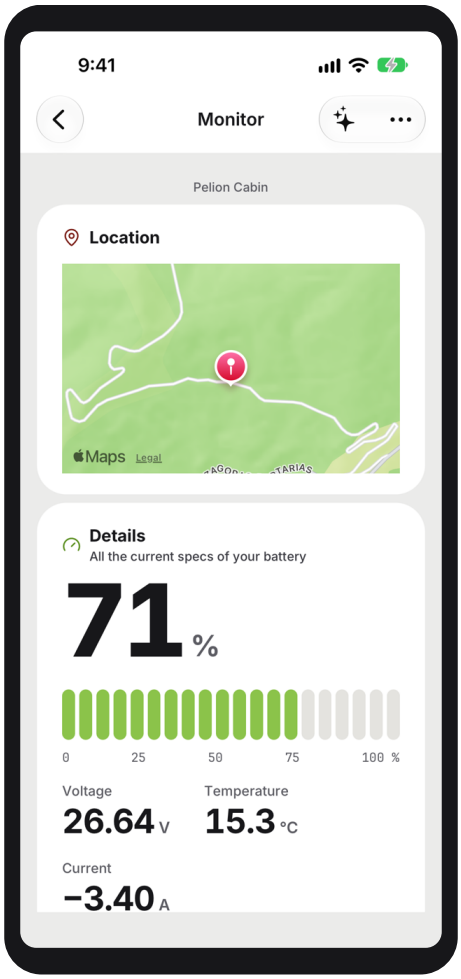
- **Sessions** lists the latest 50 charges and discharges: when each started, the state of charge from start to end, and how long it took.
- **Daily** shows the last 30 days: each day's charge range, temperature, peak charge and discharge current, cycles and faults.

The history is built from readings Battery Monitor sends while it is connected: a reading every 2 minutes while the battery charges or discharges, every 15 minutes at rest, and one at once on any alarm. The app sends them when you are online, so a battery the phone never connects to has no new history. Daily statistics are worked out each night.

We keep each reading for 90 days, and the sessions and daily statistics for the life of the battery. Whoever can see the battery sees its history, including a later owner.

Batteries over the internet

Batteries with a Batterieslab IoT bridge, and Ermis batteries, also appear under **Over the internet** on the home screen, wherever you are. Their page shows the same values from the latest report, and for an IoT bridge a map if the bridge reports its position, and its **Actions**: GPS on or off, how often it reports (**Sleep Time**), and **Report stolen**.



Over the internet

For Ermis batteries, see Ermis and Ermis Cloud.