

Clover units are by default equipped with a Lithium LiFePO4 battery. We have made this choice very consciously. Here follows a technical argumentation.

Mainly, two types of Lithium batteries exist:

- Lithium-Ion (LiCoO₂)
- Lithium LiFePo₄

Lithium-iron-phosphate

A lithium-iron-phosphate battery is a rechargeable type, made of lithium-iron-phosphate (LiFePO₄) as cathodic material.

Phosphate-based technology has superior thermal and chemical stability, offering greater safety than batteries of a different kind of lithium-based cathodic material.

LiFePO₄ cells are not flammable, even when incorrectly used during charging or discharging. They are more stable under overload or short-circuit and are capable of higher temperatures without degrading.

If misuse occurs, the phosphate-based cathodic material will not burn and it is not susceptible for thermal runaway. Phosphate chemistry also results in a longer life,

The LiFePO₄ battery has an advantage over other battery technologies with regard to charging safety. This is very important because a battery may not overheat or burn in the case of over-charging.

A LiFePO₄ battery remains cool at room temperature.

LiFePO₄ is a non-toxic material and is therefore regarded as a safe material.

LiFePO₄ features:

- a) Most stable
- b) Lightweight
- c) Non-toxic material
- d) Rapid charging cycle
- e) Safe (non-flammable)
- f) Good density
- g) Long life
- h) Durable and economic

