

1

Adhere to the maximum recommended discharge level

- Occasional use : 100%
- Regular use : 80%

If you discharge your battery excessively, the number of cycles it can provide will be permanently reduced. What's more, whether you use your battery regularly or occasionally, it's important to choose a charger that's adapted to your needs.



Please refer to your battery's specification sheet to learn the number of cycles expected.

2

Charge your battery within 24 hours of using it

If you don't charge your discharged battery within 24 hours, its performance can deteriorate considerably.

Also, it is important to use a charger that meets your battery's recommended charging voltage and current.

Important:

A LiFePO4 battery can't be charged under 0 °C unless it has an integrated auto-heating function.

3

Keep it charged between each use

Batteries equipped with Bluetooth may self-discharge faster. Verify charge state each month to keep it from getting too discharged. It is not recommended to keep a charger connected permanently if the battery won't be used regularly. It is better to store it properly.



Avoid to completely discharge your battery

If your LiFePO4 battery gets completely discharged, the BMS will enter protection mode and you will get 0V at the terminals.

To wake up the BMS, you need to connect a 12 to 14V source (battery in parallel, power supply or supply mode of a charger) then charge your battery as soon as possible.

4

Store your battery properly

If you don't plan to use your battery for several months, it is recommended to store your LiFePO4 battery between 50-80% capacity (13-13.3V) in other words, not too full and not too discharged.

It is not recommended to leave a charger permanently connected on it. It is better to do periodic verification.

Store your battery in a dry space between 0°C and 20°C. Unplug any appliance and make sure that the terminals are clear in order to avoid any possible short-circuit.

LiFePO4 Battery - Voltage reading

Charge State	12V	24V	48V	3.2V
100% charging	14.6V	29.2V	58.4V	3.6V
100% Rest	13.6V	27.2V	54.4V	3.4V
90%	13.4V	26.8V	53.6V	3.3V
80%	13.3V	26.6V	53.1V	3.3V
70%	13.2V	26.4V	52.8V	3.3V
60%	13.1V	26.1V	52.3V	3.2V
50%	13V	26.1V	52.2V	3.2V
40%	13V	26.0V	52V	3.2V
30%	12.9V	25.8V	51.5V	3.2V
20%	12.8V	25.6V	51.2V	3.2V
10%	12V	24V	48V	3V
0%	10V	20V	40V	2.5V



Want to measure your battery's state of charge?

This handy tool will help!

Verify charge state at rest (3-4h after charging/usage)

