

# FREQUENTLY ASKED QUESTIONS

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### **Can I place the battery under the bonnet?**

No, lithium batteries can't be placed under the bonnet as the environment is too hot. If you install under your bonnet, you may void your warranty.

### **What charger can I use and how do I charge the battery?**

It is recommended that customers use a charger specially designed for lithium batteries instead of lead-acid or other types of chargers. You can also use a solar charger but need to adjust the charging mode to lithium battery mode. Remember that a Lithium battery is a DC power supply, which cannot be charged directly by an alternator. A rectifier device can be added to convert AC into DC to charge the lithium battery.

### **Can I charge my battery away from mains power?**

Yes. Our LiFePO4 batteries support both solar charger (off grid charge) and main 240V power charge. When charging with a solar charger, please select B04 mode on your solar regulator. (Please take note that this is for our regulators only. Different regulators will have different settings).

### **How often should I recharge my battery?**

If you use the battery frequently, it's better to charge the battery every time after you finish using it. If you do not use it often, such as every few months, we suggest you charge the battery at least every 3 months.

### **What's the best way to charge my battery?**

Here are some charging tips: 1. For mains power charge: Please use a lithium battery charger to charge the battery. 2. For solar charge: Please select B04 mode on your solar regulator.

### **What charge level should I charge my battery at?**

It's better if you fully charge the battery after using it, since LiFePO4 batteries support 100% depth of discharge and charge very well. 100% charge means your charger will show a green light.

### **How do I store the battery if I will not be using it for a long time?**

We recommend fully charging the battery if it will be stored for a long time. We also suggest recharging it every 3 months if it will be in storage continuously.

### **Can these batteries be used for trolling motors?**

As an example, our single 140AH Giant 12V lithium battery maximum can support a 1000W power trolling motor. If you connect 2 sets of 140Ah batteries in parallel, the maximum power can be 2000W, and so on.

### **What level of the battery affects its life-cycle?**

If you don't use it often, we suggest you charge the battery every 3 months. This will not harm the battery life.

### **Can it discharge 100% or needs to be left with 20%?**

Our battery depth of discharge is 100%. The BMS is not adjustable but to extend the life of the battery, it is recommended to discharge 95%.

### **Can I connect our LiFePO4 batteries to AGM?**

No, our LiFePO4s must be connected with the same size and model due to differing charging parameters.

### **What percentage of the capacity is considered faulty after years of using the battery?**

30% capacity can be considered faulty. 80% is considered normal.

### **Would there be gas emissions when the battery is charging and discharging? I want to put it below the dining seat which is near gas.**

There are no gas emissions when the battery is charging and discharging.

### **Can you use the battery to crank or jump start?**

No.