

## **Marine/RV FAQs:**

### **1. Can I use the lead-acid battery charger to charge OSN POWER lithium iron phosphate batteries?**

We HIGHLY recommend to use LiFePO4 charger with our batteries. The lead acid battery with 13.5v charge voltage ,while our LiFePO4 charger is 14.4-14.6v. To ensure a full charge, speed of charge and proper cell balancing, it is better to use a LiFePO4 charger. We sell these with batteries at a very competitive price .

### **2. Can you mount the OSN POWER lithium batteries in any position?**

Yes, because there is no fluid inside of LiFePO4 batteries.

So you can install the battery flexibly where it is best suitable for your application.

### **3. Under the same conditions ,will the OSN POWER 12V100Ah lithium iron phosphate battery give a longer run time than the 12V100Ah lead-acid battery ?**

Yes. OSN POWER Lithium iron phosphate batteries 12v100Ah provide more useable capacity than a lead-acid equivalently rated product. You can expect up to twice as much runtime.

### **4.Why should I consider OSN POWER Lithium iron phosphate batteries for my RV/Marine?**

There are many advantages that OSN POWER Lithium iron phosphate batteries have over lead acid batteries .

- Weight/Size – lithium batteries are half the weight and 1/3 of the size as lead acid equivalents which is important in an RV. A 100Ah lead acid battery weighs around 30kg, however our 100Ah lithium battery is 12kg.

- Depth of discharge (DOD) – OSN POWER Lithium iron phosphate batteries can be safely discharged to 80% DOD compared to typically 50% DOD for lead acid batteries. That means for a 100Ah battery ,you have 80Ah available to use with a lithium battery and only 50Ah with a lead acid.

- Cycles – OSN POWER Lithium iron phosphate batteries are rated at 5,000 cycles times at 80% DOD compared to a lead acid battery at 500 cycles.

- Power output – OSN POWER Lithium iron phosphate batteries can discharge at up to 200A continuous and 400A peak . Being able to discharge at 200A allows the RV owner to run high power appliances such as microwaves, kettles, coffee machines e