

## BATTERY STORAGE

This tutorial shows how to safely store the battery for the XE-1.

The battery life can be prolonged when being properly maintained and especially when being operated and stored at the right temperatures. With increasing age, however, the battery capacity will diminish, even when properly maintained. A significantly reduced operating period after charging indicates that the battery is worn out and must be replaced.

Before storing your Hydrofoiler for a prolonged period of time (2 weeks or more), we recommend you do the following:

1. **Check your battery housing for any damage.** Take a look over the battery and ensure that there are no cracks in the housing. If you notice anything suspicious or suspect water in the battery, isolate the battery and contact us for further advice.
2. **Storage location.** If you plan to store the Hydrofoiler for weekend rides etc., make sure you keep the battery out of reach of children and pets. Take care to not leave it in direct sunlight, or if you're in colder temperatures in a place where the temperature gets below  $-5^{\circ}\text{C}$  ( $23^{\circ}\text{F}$ ). Store the batteries in the following locations:
  0. In a room with a smoke alarm.
    1. Away from combustible or easily flammable objects.
    2. Away from heat sources
3. **Storage temperature.** Store the batteries at temperatures between  $10^{\circ}\text{C}$  and  $20^{\circ}\text{C}$  ( $50^{\circ}\text{F}$  and  $68^{\circ}\text{F}$ ). Never store them at temperatures below  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ ) or above  $+60^{\circ}\text{C}$  ( $140^{\circ}\text{F}$ ). To ensure that the battery lifetime is as long as possible, storage at approx.  $20^{\circ}\text{C}$  ( $68^{\circ}\text{F}$  or room temperature) is recommended.
  0. *Take care that the maximum storage temperature is not exceeded.* E.g. Do not leave the battery in a vehicle in summer and store it out of direct sunlight. It is recommended to not store the battery on the bike.
4. **Battery charging for storage.** Not maintaining a healthy charge on your XE-1's battery could result in permanent damage. To avoid this damage, charge the battery to 50% (Store Charge) every two months when not riding and charging frequently. [See store charge article for instructions first.](#)

NOTICE: Never store a completely discharged battery as it might result in permanent damage. During the winter or long storage periods, it is recommended that you charge the battery to 50% charge every 2 months.

It is not recommended to have the battery pack connected permanently to the charger.

**Important** - Fully charging the battery before storage will not increase shelf life and could be more damaging to the battery, a 50% charge is optimal for prolonged battery life.

If you have any concerns or questions about battery storage & safety please get in touch directly at [support@manta5.com](mailto:support@manta5.com).