

## BATTERY SAFETY & TROUBLESHOOTING

The Manta5 Hydropack (battery) is a carefully engineered water resistant unit. The battery has a Battery Management System (BMS) built in, this is to protect users and manage safe battery operation.

If the battery is damaged (for example during transportation or handling) the housing may become compromised. A damaged battery that comes into contact with water may result in it becoming unstable which could result in a fire and or explosion.

CONTACT INFORMATION	
EMAIL: <a href="mailto:SUPPORT@MANTA5.COM">SUPPORT@MANTA5.COM</a>	
EUROPE/UNITED KINGDOM: +44 208 089 7892	
UNITED STATES: +1 786 605 0067	
NEW ZEALAND: +64 800 114 235	
SIGNS OF A COMPROMISED & POTENTIALLY UNSTABLE BATTERY	ADVISED ACTION
UNSTABLE STATES	
Battery housing deforming	Do not use. Move the battery into an open area away from people and property if safe to do so. Call local emergency services.
Making noises (other than normal beeps)	
Unable to turn off	
Extremely hot temperature	
MALFUNCTIONING	
Dropped/damaged cracked housing	Do not use. Put it in a safe, open area and contact Manta5.
Loose screws	
Connector coming loose	
Unable to turn on	
Four red consecutive beeps	

### Manta5 Battery Operating Guidelines

1. Use the battery at your own risk

2. Do not open Manta5 Hydropack battery housing under any circumstances
3. Carefully inspect the battery before each use.
4. If a battery casing has visible damage and the battery falls into water, take it out immediately and put it in a safe and open area. Maintain a safe distance from the battery until it is completely dry. Never use the battery again and dispose of the battery properly.
5. The battery must be used in temperatures from 0°c to 40°c. Use of the battery in environments above 40°c can lead to a fire or an explosion. Use of battery below 0°c can lead to permanent battery damage.
6. Do not drop or strike the battery.
7. Do not place heavy objects on the battery or charger.
8. Do not charge or use a damaged battery. If your battery is abnormal contact Manta5 or an authorized Manta5 dealer for further assistance.
9. Do not use the battery if it was involved in a crash or heavy impact or drop.
10. Do not use a non Manta5 battery. Any damage caused by a non Manta5 battery will not be covered by warranty.
11. Do not disassemble the battery in any way or the battery may leak, catch fire, or explode. Electrolytes inside the battery are highly corrosive.
12. Do not heat batteries. keep away from heating sources and out of direct sunlight.
13. Do not put batteries in a microwave oven, freezer or in a pressurized container.

#### **Use of Zarges Lithium Battery protective cases:**

Storing your batteries in a Zarges (or equivalent) Lithium Battery cases provides extra protection. Due to the confined quarters on a Boat we recommend that all batteries stored overnight or left unattended on a boat be stored in a Zarges case. Zarges cases can be purchased via [Manta5.com](https://www.manta5.com)

#### **Battery Charging**

Your battery is at its most vulnerable when charging so ensure that when charging, the battery is not unattended. Stay within view of your battery so you are aware of what is going on. Charge your battery in a safe area, the larger the area the better. Ensure you are using a dedicated power outlet and that the charging happens in an area with a smoke alarm.

#### **Battery Error Codes**

The battery communicates information through:

- a. The battery switch's illuminated flashing; and
- b. by emitting audible beeps

Warnings are indicated as follows:

WARNING	ILLUMINATED SWITCH LED	AUDIBLE
Low battery (<10%)	Red, single LED flash, repeating	Single beep, repeating
Motor over temperature	Red, double LED flash, repeating	Double beep, repeating
Battery over temperature	Red, triple LED flash, repeating	Triple beep, repeating
Battery error	Red, quadruple flash off, repeating	Quadruple beep, repeating

**Any undocumented states contact Manta5 immediately**

[support@manta5.com](mailto:support@manta5.com) or call:

Europe/United Kingdom: +44 208 089 7892

United States: +1 786 605 0067

New Zealand: 0800 114 235

#### Standards

- [Manta5 Battery MSDS](#)
- [Cell Specifications](#)
- [UN38.3 Report](#)
- [EMC362 Report](#)
- [EC Declaration of Conformity](#)
  
- Dispose of the battery in specific recycling boxes only after a complete discharge.
- Do not place the battery in regular trash containers.
- Strictly follow your local regulations regarding the disposal and recycling of batteries.