

Recommendations for storage of Lithium-Polymer battery pack.

Damage from storage in under-charge state

A Lithium-Polymer (Li-Po) battery may be damaged or may fail if stored in a discharged state for a prolonged period of time. This may cause permanent damage that could result in a faulty DMT device, physical swelling of the battery or leaking of the electrolyte.

To avoid damaging the battery pack follow the storage and top up instructions below.

Storage

Lithium-Polymer cells begin to degrade as soon as they are manufactured; in other words, they have a finite "shelf life". The rate at which the DMT battery pack degrades can be slowed by storing it correctly when not in use.

Store the battery pack at a temperature of 15°C with humidity of 45-75%. The battery pack should be charged to 40%.

Warm the battery pack up to ambient temperature before charging or discharging.

Charging

To avoid excessive discharge and damage to the battery pack, perform the following cycle every 4-6 months:

- Plug the battery pack into the device. Follow the device specific instructions to do this.
- Connect the device to a 12V external power supply. Follow the device specific instructions.
- Let the device charge the battery pack for 1 hour. This will provide an adequate charge for further storage.

This cycle will ensure that the battery pack is kept at a safe level and will avoid damage from excessive discharge.

Disposal Information

Waste disposal must be in accordance with the applicable regulations. Disposal of the Lithium-Polymer battery pack should be performed by permitted, professional disposal firms knowledgeable in state or local requirements of hazardous waste treatment and hazardous waste transportation.

First-Aid Measures

The Lithium-Polymer battery packs are not hazardous with eye or skin contact under normal circumstances. In case of rupture the leakage of electrolyte from the internal cells can be hazardous. Take the following measures should this happen:

- **Eye:** Check for and remove any contact lenses. Immediately rinse with plenty of clean water for at least 15 minutes and seek medical assistance.
- **Skin:** Immediately rinse with plenty of clean water for 15 minutes and seek medical assistance. Ventilate the contaminated area.
- **Ingestion:** Immediately rinse mouth with clean water and seek medical assistance.

Operating Temperature

- Ideal operating temperature range for the battery pack is between 0 - 45°C.
- If the device operates outside of this temperature range, the device will alter the charge current to protect the lifetime of the battery pack.

Mounting the battery pack inside the device

- The battery pack will swell or be prone to swelling when mechanically pinched or excessive force is applied along the surface of the battery pack. The protective foam alleviates any forces on the battery pack.
- Please ensure battery pack is correctly installed as per the installation instructions.

Other Information

This information comes from reliable sources, but no warranty is made to the completeness and accuracy of information contained. Digital Matter Telematics does not assume responsibility for any damage or loss because of misuse of battery packs.

Users are responsible for the correct use of battery packs.

Warranty: 1 year - provided the battery pack has been used under normal temperature conditions and stored as prescribed in this document.

Note: Warranty is void if the battery pack is not used for more than 6 months without a top up charge.