

How to keep you rechargeable Lithium battery in Tip Top condition

All rechargeable batteries loose their performance (capacity and discharge rate) over time.

The correct usage and maintenance of the Li-Iron battery in your Scooter, Bike or Car will not only ensure it runs faster and longer but it will extend its working life too.

Tip 1

Charge after each use

Most people know they should do this but often put it off and forget. It is better to store the Scooter or Bike with a fully charged battery than a discharged battery. It also has the benefit that your Scooter, Bike or Car is ready for use the next time you need it. Also all batteries slowly discharge even when the device is switched off, this can cause the battery to drop below the minimum safe voltage which will damage the battery, more on this topic in Tip 2. If you do not plan to use your item for a long time (several weeks) then it is better to store your battery charged to about 40%, some chargers have a program for this and store it in a cool dry place preferably out of the item it is used in if possible.

Tip 2

Stop using your Scooter, Bike or Car once the low voltage warning is triggered

It is very tempting to keep using a device after the low voltage warning comes on; this low voltage safety device is there to protect the battery from becoming deeply discharged, for devices that do not have a low voltage warning you should stop using the device once it shows signs of slowing. Li-iron and Li-Po batteries that are discharged too far will be permanently damaged and may not be rechargeable using the standard charger.

Deep discharged batteries are not covered by the warranty.

Tip 3

Calibration

While Li-Iron and Li-Po batteries do not suffer from memory effect, where the battery looses capacity if it is not fully discharged before recharging, the battery capacity gauges on some devices can loose their accuracy if the battery is not periodically discharged to the safety minimum and recharged fully to synchronize the gauge. This is why some devices have an instruction to charge for a certain period of time before first use.

Tip 4

Freezing conditions

While it is sometimes necessary to use you Scooter, Bike or Car in very cold weather this should not be a problem as the battery generates heat when in use. However do not store and certainly do not charge your battery in freezing conditions as this can damage the battery chemistry.

Following these simple tips will ensure you get the best performance and life out of you Li-On and Li-Po battery.