Warranty conditions, safety & installation instructions for Lead batteries & chargers

Lead-acid batteries require special care and caution to minimize risk and increase the battery life. Improper use of batteries may cause personal injury and property damage. We accept no liability for damages resulting to improper use. The company Future bikes is only liable for material damages to the conditions listed below. Read these conditions / instructions carefully before using your battery.

1. Basically: If the LED of the charger shows GREEN, the battery is full and it needs to be separated from network and from the battery! NEVER leave the charger on the battery for longer than necessary, it requires an unnecessary power! If the battery charger does not reliable "turn off" (GREEN LED) - you could overload the battery and make it unusable! So, please DO NOT leave the battery on the charger for longer time for example over the winter months!
2. Use only the original Tante Paula charger or an accessory charger from us. If the battery or the charger are getting very warm or even hot during charging the charge must immediately be stopped. A normal warming of the battery / charger while charging is normal and no reason to worry.
3. The battery shall not be exposed to temperatures above 45°C or below 0°C. A battery can freeze when the temperature is below the freezing point. A frozen battery should never be charged directly - this can lead to an immediate defect (no warranty case).
4. Never drive the scooter until the battery is 100% empty, so don´t wait until the motor makes the last movement (breath). The lead (acid) batteries may not be DEEP DISCHARGED. (Note: If you had a “lithium battery” this would be possible without problems – thanks to the battery management system that stops the current flow. Lead and lead acid batteries should not be deep dischcarged. They can immediately get a defect!)
5. The battery must not be mechanically damaged. Dents or holes in the battery pack can lead to a complete battery failure and possibly cause personal injury, fire or an explosion. Do not drop the battery to the ground!
6. The battery must NOT come into contact with water, this could cause a short circuit!
7. When the battery is empty, it should be recharged as soon as possible. Otherwise it can lead to a deep discharge, this can lead to total failure / defect of the battery. When you do not use the battery for longer time (eg in the winter months) check the battery at least every 4-6 weeks and recharge it for a short time. The battery loses about 10% of its capacity per month at room temperature. At low temperatures (autumn / winter) The battery may even lose significantly more capacity per month.
8. The battery should never be short-circuited. When connecting the battery to the scooter please check the the correct polarity of the connector. Only holding the connectors wrong together for a second might cause a short circuit!

9. The pass life / number of cycles depends on the cell chemistry of the individual cells as well as the stress/use on the battery. In principle, a battery is considered to be worn out, if its capacity is less than 70% of its original capacity. After our experiences lead (acid) batteries can achieve about 200-400 cycles. This is the maximum cycle life. Added should be the usual “aging time”, that is the time that elapses since a battery is worn only due to storage. The actual life results from the temporal aging of the cells and the cycle-dependent aging. To reach a maximum possible number of cycles the battery should not be: Reversed / deep discharged / overloaded / overheated / supercooled.
10. If you "store" the battery in the winter, please make sure that the battery is NOT EMPTY. Before storage, the battery should be fully recharged!

CHARGER:

1. The charger shall not be exposed to temperatures above 45°C or below 0°C. A battery can freeze when the temperature is below the freezing point. A frozen battery should never be charged directly - this can lead to immediate defective! (no warranty case).
2. The charger must be connected to the network at least every 4-6 weeks and the battery can be recharged with it.
3. The charger must NOT come into contact with water. Risk of short circuit!
4. The charger is designed for stationary operation.
5. The charger may, after it has been exposed to cold temperatures (eg transport in the car in winter) not directly into heat. Here, condensation may form inside the unit, this may cause a malfunction.
6. The charger plug must not be removed / manipulated.
7. Do not cover equipment. Ensure sufficient cooling. Do not expose to direct sunlight. Do not use it in very dusty environments, the radiator fan could be clogged and overheat the charger (lead to a defect!).
8. Keep the charger and cables away from flammable objects.

WARRANTY: **Batteries are wearing parts and can, for example, suffer through a unique deep discharge or by a single freeze. This can cause a cell defect IMMEDIATELY, the battery would get unusable at once. Please refer to the enclosed instructions for use and care of the batteries! Failure to follow the instructions will immediately void any warranty! Normal warranty is 24 months (german law).**

Have fun and bon voyage wishes.

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