

## **GENS ACE/TATTU Lithium Iron Phosphate Battery Operating Instructions**

ALL OF THE INSTRUCTIONS AND PRECAUTIONS MUST BE READ CAREFULLY AND FOLLOWED EXACTLY BEFORE USE IT. WARNING: IMPROPER USE OF LiFe BATTERIES MAY RESULT IN FIRE, DAMAGE TO YOUR DEVICE, PROPERTY DAMAGE, COLLATERAL DAMAGE AND OR SERIOUS INJURY. USE THESE BATTERIES WITH CAUTION.

### **DISCHARGING**

- Never discharge battery at an amperage rate higher than the specified C rating on the battery label.
- Never allow the temperature of the battery to exceed 140° F during discharge. Adequate battery cooling is required, especially when discharging at or near maximum rates.
- Never discharge battery below 2.5v per cell. Batteries discharged below 2.5V per cell may be damaged, resulting in loss of performance and potential fire when battery is recharged.
- Never discharge battery to a level below 2.5V per cell under load.
- Never leave battery unattended during the discharging process. User should monitor battery for entire discharge or charging process.
- In case of emergency, STOP discharging immediately, disconnect the battery, and place it in a safe area away from flammable materials and property. Observe the battery for approximately one hour after emergency and confirm that it is not leaking electrolytes. Exposing battery electrolytes to air may result in fire. It is possible for the battery to ignite even after one hour.
- Carefully examine the battery for damage before use. DO NOT use a battery that is physically damaged, swollen or weeping electrolytes. DO NOT USE a battery with cells that are out of balance.

### **BEFORE CHARGING**

- Please read your charger's instruction manual before charging the battery.
- Always check the battery voltage before charging. Ensure cell voltages are at or above the minimum safe charging voltage. If cell voltage is below recommended levels the battery has been over discharged or had an internal failure and should NOT be charged.
- Always check the battery for any type of damage before charging. Check the battery packaging, wires and connectors for defects, which may cause a short circuit and eventual battery failure.
- Make sure you are using charge leads which are compatible with the battery connectors.
- Always check the polarity of the battery cable and charger leads carefully before connection to avoid any short circuit.
- Always verify the charger is in good condition. A poor quality charger can be dangerous. It is solely your responsibility to ensure that the charger you use works properly and is in good condition. Always monitor the charging process to assure batteries are being charged properly. Failure to do so may result in a fire.

### **CHARGING**

- ALWAYS MONITOR a LiFe battery that is charging or discharging. DO NOT leave unattended for any length of time.
- ONLY use a charger specifically designed for LiFe batteries. NEVER charge LiFe batteries with a charger that is not specifically designed for use with LiFe batteries. Never use LiPo or LiHv or other charger settings for LiFe batteries.
- Always charge Batteries in an open area away from flammable materials, liquids and surfaces.
- Never charge Batteries inside of the model.
- Never charge Batteries that are hot to the touch (above 100° F). DO NOT handle Batteries until they are cool.
- Always set the charger to the proper cell count and/or voltage listed on the battery label.
- Always set the charger's amperage to the rate listed on the battery label.
- NEVER charge LiFe batteries at currents greater than the "3C" rating of the battery ("1C" equals the rated capacity of the battery). Using a "1C" rate will help to maximize the lifespan of the LiFe battery.
- Never overcharge battery beyond the capacity listed on battery label.
- Never overcharge battery over the rated maximum voltage of 3.6V/cell for LiFe.
- It must choose series charging if two or more battery packs be connected in series for using.
- Use suitable and good quality chargers ONLY! When charging, please make sure the surrounding area is clean and cleared of flammable materials.
- Stop charging immediately when the battery is fully charged.
- Do not leave a fully charged battery connected to the charger when the battery is fully charged disconnect it. GENSACE TATTU BATTERIES AND GREPOW INC. will not be responsible for any personal injury and property lost or any kind of accident that is caused by improper charging.

### **STORAGE**

- Do not connect the terminals with metal objects. This will short-circuit a battery, resulting in heat and electrical discharge.
- Never store loose Batteries together, the battery terminals may contact one another causing a short circuit.
- Never store batteries in extreme temperatures or direct sunlight. For long term storage (more than 6 months) it is recommended to charge the battery fully, and then discharge it to between 60% and 75% of its capacity. Store the battery at room temperature in a cool or shaded area, ideally between 60° to 80°F. Temperatures exceeding 150°F for greater than 1 hour may cause damage to the battery and result in a fire.
- Always disconnect battery when not in use. Always store battery in a non-conductive and fireproof container.
- Never alter, puncture or impact battery or related components.

### **SAFETY**

- NEVER REVERSE POLARITY OF LEADS WHEN CHARGING OR DISCHARGING. This will damage the battery cells, the connected device and may result in fire.
- Never strike battery with any sharp object.
- Never open or deform folding edge of the battery cell.
- Never drop, hit or bend the battery.
- Never disassemble the pack or cells. Disassembly may cause an internal short circuit in the cell. An internal short can lead to outgassing, electrolyte leakage, fire or other damage.
- LiFe batteries should never leak electrolytes. If electrolytes do leak and come into contact with skin or eyes, flush with water and seek medical attention immediately.
- Never dispose of Life batteries in fire. Do not spill on or soak battery in liquids such as water, seawater soft drinks, juice, coffee or others.
- Do not attempt to modify the battery in any way. If the battery is damaged, leaking, smells of electrolyte has loose wires or has been deformed in any way discontinue use and place in a fireproof location. Dispose of battery in accordance with local rules and regulations.
- If at any time the battery becomes damaged, hot, begins to balloon or swell, discontinue charging or discharging IMMEDIATELY. Quickly and safely disconnect the battery from the charger or model. Place the battery and/or charger in a safe, open area, away from flammable materials. After one hour, if the battery condition has stabilized, remove the battery from service. Do not continue to handle, attempt to use, or ship the battery. Failure to follow the procedures outlined in this manual can cause damage to the battery, destruction of property or serious injury.

## **DAMAGE LIMITS**

Gens Ace/Tattu is not liable for special, indirect or consequential damages, loss of profits or production or commercial loss in any way connected with the product, regardless if claim is based in contract, warranty, negligence, or strict liability. Further, in no event shall the liability of Gens Ace/Tattu exceed the individual price of the product on which liability is asserted. As Gens Ace/Tattu has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury.

By the act of use, setup or assembly the user accepts all resulting liability.

If you as the purchaser or user are not prepared to accept the liability associated with the use of this product, you are advised to return this product immediately in new and unused condition to the place of purchase.

## **LIMITED WARRANTY**

Gens Ace/Tattu reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied. This warranty is limited to the original purchaser and is not transferable. Replacement as provided under this warranty is the exclusive remedy of the purchaser.

This warranty covers only the products purchased from an authorized dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims. Gens Ace/Tattu makes no warranty or representation, express or implied, about non infringement, merchantability or fitness for a particular purpose of the product.

The purchaser acknowledges that they alone have determined that the product will suitably meet the requirements of the purchaser's intended use. Gens Ace/Tattu's sole obligation here under shall be that it will, at its option, replace any product determined by Gens Ace/Tattu to be defective in the event of a defect, this is the purchaser's exclusive remedy. Replacement decisions are at Gens Ace/Tattu's sole discretion.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance or attempted repair by anyone.

## **QUESTIONS AND ASSISTANCE**

If there's anything that is not mentioned in this operating instructions, please contact us in time for consultation. If you need assistance, please contact your local hobby store or place of purchase.

If they cannot provide support, please contact Gens Ace headquarters with [info@gensace.com](mailto:info@gensace.com).

## **INSTRUCTIONS FOR DISPOSAL BY USERS**

This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment.

The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.