



OVONIC LITHIUM POLYMER BATTERY OPERATING INSTRUCTIONS

Lithium Polymer batteries are significantly volatile with active material. Please read the following instruction and precautions carefully before charging or using. Failure to do so could result in swelling or catching fire, even personal injury or property damage. Ovonic and its distributors and dealers will not be responsible for the consequences caused by improper use. By using this product means you have read and agree with this term. If you don't agree, please return the item immediately.

Precaution Before Charging or Discharging

- Never attempt to charge or discharge the battery which is visually and physically inspected with any damage such as loose leads or connectors, damaged packaging, swell, liquid leakage.
- Always check the voltage of each cell before charging. If the voltage of a single cell is lower than the normal value (3.3V / cell) or the voltage of each cell is not balanced, the battery shouldn't be charged or used any more.
- Always make sure the battery is correctly connected, no reverse polarity is allowed. Always prevent the battery from short circuit.
- Always make sure the connector on the charger end is compatible with the battery connectors.
- Always make sure the charger is in good condition. Charger malfunction is a main reason for battery failure or other problems. User should always check the charger's quality and follow the charger's instruction.

Charging

- Always use a charger specifically designed for LiPo batteries. If you have a charger capable of all types of batteries (i.e. Ni-Mh, Ni-Cd), you must ensure that the charger is set properly on Li-Po mode.
- Please read the charger instruction carefully and thoroughly before charging.
- Never leave the battery unattended at any time while it's being charged
- Never overcharge the battery.
- Never short circuit the battery.
- Never charge the battery at a rate over 1C. (1 times the capacity of the battery in amp hours)
- Always charge the battery at the temperature range of 32°F-113°F(0℃-45℃). Always allow the battery to cool to a safe temperature before charging again.
- Always charge the battery on platforms or in containers with heat resistance like cement ground or containers filled with sediment. Or put the battery in fireproof container or bag while charging.
- Never surround the battery with flammable materials or liquids such as paper, plastic, carpet, vinyl, leather, or wood while charging.
- Never charge the battery in the device.
- Never allow cells to overheat at any time. Cells can and usually will become damaged physically and possibly catch fire when it's temperature exceeds 140°F (60℃) during charge or discharge. Adequate cooling for the battery is required, especially when it is discharged at or near maximum rates.

Discharging

- Always check the battery before discharge. Do not discharge the battery if there is swelling or leakage.
- Never discharge the battery at amperage rates higher than specified on battery's labels in case of overheat and fire event.
- Never over discharge the battery to a level below 3V per cell. Battery discharged below 3V may be damaged, result in performance lose or swelling.
- Never leave the battery unattended during discharge at any time. User should monitor the whole discharging process and react to potential problems.
- Stop discharging immediately if you witness smoke or swelling. Disconnect the battery from your device and leave it in a safe fireproof location which is at least 20ft from any building, car or any flammable materials for at least 1 hour. The chemicals in the battery may leak out and react with air to ignite, resulting in fire.

Battery Storage

- Always keep the battery away from liquid and never storage it in a humid environment.
- Never place the battery near fire or heaters.
- Never store batteries under extreme temperatures or direct sunlight. The batteries should be stored in the environmental condition within temperature range of 14°F-113°F(-10℃~45℃) .
- For a long time storage(over 3 months), the environmental condition for batteries should be:
Temperature: 73.4°F±41°F(23±5℃)
Humidity: 65±20%RH
- Never store batteries together without separator, because the battery's terminals may contact with others' and cause short circuit.

- Always keep batteries out of reach of children
- Never store the battery in the device when it's not used for a long time.
- Charge the battery to a range of 3.7V~3.9V per cell for long term storage. Check if the battery container is in good condition every two weeks and charge and discharge the battery once every 3 months to maintain it's stability.

Caution

- Never allow cells to be punctured, especially not by metallic objects.
- Never fall, hit or bend battery body.
- If the LiPo battery is involved in a crash, disconnect the battery from your device and check the battery and connectors in case of damage and short circuit. (Caution: the battery can be very hot!)
- Never disassemble the cells or change wiring.
- Never disassemble the cells and re-assemble them together with other LiPo cells or packs.
- Never expose batteries directly under sunlight during charging, resting or storage for long periods.
- Never continue to handle, use, or ship the swelled or leaked battery.
- Never directly contact the battery if there is leakage.
- Never allow electrolyte to contact with skin or eyes. If the above situation happened, wash with fresh water immediately and seek medical advice.

DAMAGE LIMITATION

Ovonic will not be responsible for any damages caused by man-made, accident or act of God factors as well as profits, production or commercial loss in any way related to the product, whether claim is based on contract, warranty, negligence, or strict liability. Further, Ovonic's liability shall not exceed the liability asserted on individual price of the product in any case. Ovonic will not be but the user or purchaser should be responsible for any resulting damage or injury from setup, final assembly, modification or misuse. If you, as the purchaser or user, are not prepared to accept the liability associated with the use of this product, please return this product immediately in brand new and unused condition to the place of purchase.

LIMITED WARRANTY

Ovonic reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implication.

This warranty is limited to the original purchaser and is not transferable. Product replacement provided under this warranty is the exclusive remedy for the purchaser. This warranty covers only products purchased from authorized dealers. Third party transactions are not covered by this warranty. Warranty claims requires proof of purchase.

Ovonic makes no warranty or representation, express or implication about non infringement, merchant ability or fitness for a particular purpose of the product. The purchasers acknowledge that they have determined that the product will meet the requirements of the their intended use.

Under this warranty, Ovonic's sole obligation is to choose to replace products with any defect. This replacement is the buyer's exclusive remedy but the replacement decisions are at Ovonic's sole discretion.

This warranty does not cover any damage due to acts of God, accident, improper installation, operation, storage, negligence, commercial use, or modification.

Questions, Assistance, and Repairs

If you need assistance, please contact your sellers. If they cannot provide support, please send email to....(邮箱还没定)

Instructions for Disposal



When a battery can't be used anymore, it must be disposed properly. Unlike NiCd batteries, LiPo batteries are environmentally friendly. For safety reasons, you must discharge the battery to 3V per cell, insulate the +/- terminals of it and dispose at your local hazard waste facility. 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 products.