



# EWATT BATTERY CARE & WARRANTY

**EWATT**

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**In order to make the most of our products, be sure to read the following instructions carefully.**

## **Battery unboxing activation guide**

### **1. Check the appearance:**

Before use, please check whether the battery has visible damage. Battery terminals and joints shall be clean, dry and corrosion free.

### **2. Wake up the battery**

The first battery is dormant, and if the battery is to go into work, you need to wake the battery. There are two ways to wake the battery:

Press the circular button switch on the battery to wake up the battery, open the battery output, and make it into the working state.

Plug in the charger to awaken the battery (operate using the charger provided by our company).

### **3. Download the APP and connect it to Bluetooth**

You can download the APP by searching for "EWATT" in the "App Store" or "Google Play" app,

The APP needs to be registered by email to use it normally.

Please give the APP Bluetooth permission, click the APP icon, enter the Bluetooth search interface of the APP, search the Bluetooth name of the word "ANT", click the same code as the battery case, and the APP will automatically jump to the real-time state interface to view all the information of the battery.

### **4. Battery output is turned on and off**

Open the output: press the round button switch on the battery, wait for about 5S to open the battery output, pay attention to that after pressing the switch, do not immediately open the electric door lock switch after pressing the switch, need to wait for 5S, wait for the battery output to be fully turned on to normal output.

Turn off output: press the circular button on the battery to turn off the battery output.

## **Use the guide correctly**

### **Charging operation**

#### **Charger selection:**

- The original matching battery charger must be used.
- Do not use a non-matching charger (such as a third-party battery charger) to prevent over voltage damage to the battery.

#### **Charging environment:**

- Temperature: 5°C ~40°C (best 25°C, less than 0°C charging).
- Humidity: 85% RH, far away from water and dust.
- Ventilation: The environment ventilation must be maintained when charging, not covering the charger or battery.
- Environment: indoor charging is prohibited to prevent casualties and property losses caused by fire.

#### **Charging steps**

- Connect the charger during shutdown and confirm that the charger indicator is flashing red or green.
- Full sign: the charger indicator turns evergreen.
- No "overcharge" (no power is off for more than 12 hours after filling).
- No side filling while using (high heating and accelerated aging).

#### **Discharge operation**

**Discharge environment:** When not using the bicycle, break the battery from the bicycle to prevent the slow discharge of the battery from over discharge, affecting the warranty rights.

**Residual power management:** Recommended discharge depth (DOD): 80% for daily use (20% power is retained), and frequent 100% DOD will shorten the life by 30%.

#### **Daily use habits**

- **Up and down of electric vehicle:** make sure that the door lock and battery self-lock switch are off.
- **Vibration and shock:** electric vehicle off-road turbulence, check the battery fixing screws regularly (it is recommended to tighten every 500 km).
- **Waterproof:** no high-pressure water gun washing the battery bin.
- **High temperature protection:** Never expose batteries to direct sunlight for a long time, or near heating equipment and close to the car in summer.

## Maintenance specifications

Regular inspection (recommended every 3 months)

inspection item	Standard requirements	Abnormal handling advice
Battery appearance	No bulge, leakage, cracks	Stop using it immediately, and contact the after-sale service
splicing ear	No oxidation, loosening	Clean it with alcohol and tighten it again
Battery temperature	Use it at a temperature of 60°C	Stop using it immediately, and contact the after-sale service
Charge and discharge state	The charge and discharge are normal	Stop using it immediately, and contact the after-sale service
BMS state	No protective information, no beep	Stop using it immediately, and contact the after-sale service
BMS data	The monomer pressure difference was <50 mV, and the SOC error was <5%	equalizing charge

## Long-term storage (over 3 months)

- Power maintenance: 50%~80% (SOC), no full power or empty power storage.
- Environmental requirements: temperature 20°C± 5°C, humidity 60%, light and moisture.
- Regular wake up: charge to 50% every 2 months, stand for 1 hour (prevent self-discharge).

## Warranty clause (valid for 2 years)

### Warranty scope

#### Free replacement conditions:

- Abnormal charge and discharge due to BMS failure (nonhuman damage).
- Battery internal short circuit, liquid leakage (not caused by external force).

#### Disclaimer clause (the users shall pay at their own expense)

**Human damage:**

- Disassemble batteries, EWATTfy circuits, and use non-original accessories.
- Overcharge, high temperature baking, water, fall.

**Environmental factor:**

- Capacity loss due to no storage according to the instructions (such as full charge storage for more than 6 months).
- Fault due to use at extreme temperature (> 55°C or <-20°C).
- Over the warranty period.
- Damage caused by traffic accidents and natural disasters.

**Warranty statement**

EWATT battery company shall not be liable for, and user shall indemnify and save EWATT battery harmless from, any claims and liabilities arising out of the use, maintenance, transportation or installation of any batteries warranted hereunder. this warranty is exclusive and in lieu of all other warranties, express, implied, or statutory, including, without limitation, implied warranties of merchantability or fitness for a particular purpose. the user is solely responsible for determining the suitability of the products for user' s intended purpose and in user' s specific application. in no event shall EWATT battery be liable for special, indirect, incidental, or consequential damages.

This warranty does not cover defects that are caused by normal wear and tear, inadequate maintenance, insufficient ventilation, transportation, storage or faulty repair, misuse, neglect, accident or abuse, EWATT fication to the Battery, failure to observe operating instructions and parameters or improper installation. This warranty does not cover defects caused by external influences while in the User' s possession, including unusual physical or electrical stress such as power surges, uncontrolled voltages and currents, system harmonics, lightning, flood, fire, exposure to excessive hot or cold temperatures, or accidents. This warranty does not cover any damage that may occur as a result of improper connection, incorporation, charging (undercharging, overcharging, over-discharging), or installation.

**For further clarity, this warranty is also void if the Battery:**

1. BMS damage (as measured and logged by the Battery BMS) caused by overcurrent (continuous current over 160A) or short circuit (instantaneous current over 300A) for any reason;
2. Water or damage to the display screen caused by any reason;
3. Any human-induced impact on the battery or water immersion leads to damage to the casing;
4. Operates (charge or discharge) below or above its authorized

temperature range (as measured and logged by the Battery BMS); 5. Is charged with a battery charger, charging algorithm or unregulated charge source that does not comply with the EWATT' s recommendation as set forth; 6. Is subjected to excess vibration; 7. Battery BMS is destroyed or altered; 8. Manufacturing serial numbers are destroyed or altered; 9. Is disassembled, altered, or repaired by someone other than an authorized EWATT' s agent; 10. Is directly connected to DC motors without proper safety protection, motor controllers, and external motor voltage clamping systems; 11. Is not properly protected from inrush currents; 12. Is installed with other makes and/or models; 13. Is charged indoors.

### **Safety warning (must read!)**

#### **Forbidding act:**

- Short circuit positive and negative electrode (instant high temperature can cause fire).
- Acupuncture, cutting battery (toxic electrolyte leakage).
- Place metal items (such as keys, coins) inside the battery charge / discharge terminal.

#### **Exception handling:**

- Drum ump / odor: immediately power off, away from fire source, contact after-sales (do not deal with yourself).
- Smoke and fire: use a dry powder fire extinguisher (no water is allowed).
- Recycling tips: it is forbidden to mix with household garbage. This battery contains heavy metals, and it is strictly prohibited to discard at will.