



AMORGE BATTERY USER'S GUIDE

V2.0



1.Instruction

Thank you for purchasing AMORGE products.
Please read through this User's Guide carefully and completely before using your battery. It will help you to install battery correctly, safety using battery, avoid battery damage and get longer battery life in using.

2.Technical Parameters

Technical parameters please refer to the labels on the battery.

The power of device loads, charge voltage and charge current should not exceed the parameters on the label.

E.g.: 72V 20AH 120A battery

Battery Specifications:

Model: AWJ-7220120

Nominal Voltage: 72V

Nominal Capacity: 20AH/ 1440WH

Max Continuous Discharge: 120A

Max Peak Discharge: 200A (10 sec)

Charge Rating Voltage: 84V

Max Charge Current: 10A

Production Date: 2025.11.19

Max output continuous discharge should not exceed 120A, max output peak discharge should not exceed 200A, max peak discharge last for 10 seconds, max charge voltage should not exceed 84V, max charge current should not exceed 10A.

3.CAUTIONS

DO NOT short circuit, modify, disassemble, puncture, cut, crush or incinerate, doing so may result in fire, explosion, serious injury, and/or death.

DO NOT attempt to modify this battery in any kind of way.

DO NOT expose battery to liquids or high temperature; never Incinerate/ submerge, place

in fire/water.

Working temperature is $-20\sim 60^{\circ}\text{C}$ ($-4^{\circ}\text{F}\sim 140^{\circ}\text{F}$),
other temperatures may result in permanent cell damage causing reduced capacity, poor performance, injury and/or death.

Charge temperature is $0\sim 60^{\circ}\text{C}$ ($32^{\circ}\text{F}\sim 140^{\circ}\text{F}$),
other temperatures may result in permanent cell damage causing reduced capacity, poor performance, injury and/or death.

Storage Temperature:

1 year, $0\sim 25^{\circ}\text{C}$ ($32^{\circ}\text{F}\sim 77^{\circ}\text{F}$);

3 months, $0\sim 45^{\circ}\text{C}$ ($32^{\circ}\text{F}\sim 113^{\circ}\text{F}$);

1 month, $0\sim 60^{\circ}\text{C}$ ($32^{\circ}\text{F}\sim 140^{\circ}\text{F}$).

ALWAYS Charge only with a smart charger designed for this specific type/voltage of lithium-Ion battery.

Do NOT use if damaged in anyway.

LITHIUM CONTENT INSIDE

Always be handled with care to prevent serious injury and/or death.

4.Important Tips

The consistency difference of the cells can't be 100% same. When cells assemble to a battery pack, their consistency difference will enlarge, the power may transfer from one cell group to another cell group. Due to the internal resistance of the cell and the welded part, some power will be lost during the transferring processing, result in the voltage dropping. If long time no use and charge, the battery voltage may drop low to the the protecting line, the battery may be in protecting status can't be use and even die.

(Please note: If battery die of long period no charge, will not be cover by warranty policy.)

We will recommend to turn off discharged switch if long time no use. And recommend to



Please charge the battery to 80% one time every two months if not use.

5. Battery Installation

1. Before installing the battery, please check and confirm the battery in good shape, no damage, can charge normally.

2. (if the battery with bluetooth function)
Download and install the correct BMS APP.
(About how to download, install and connect BMS APP, please refer to content 6)

3. Connect the charger and battery, the battery should charge normally. The bluetooth will active while charging. Open the BMS APP, connect the BMS bluetooth in the app device list. Check the status in the app, the battery should no protecting information showing. If you have doubts with the information, please contact AMORGE sellers to confirm.

4. After confirm the battery in good condition, please go to BMS Control in the BMS APP, find the discharge switch(DisCHG SW), click <OffDisCHG> button to turn off the discharge switch. This is an very important operation, can prevent sparks and connector buring while

connecting the battery to the electric circuit of your bike.

5. Positive and negative

If not specially marked, the red wire for positive and black wire for negative.

If you are not sure about the positive pole and negative pole, please use a voltage-meter to measure before installing.

6. If need to use the extend cable. The extend cable should first connect correctly to the controller, then plug in the connector.

7. When inserting the connector, the direction of force should be consistent with the direction of the socket to avoid abnormal stress that could damage the connector. And the connector should be plugged to tight, whatever charge or discharge. Loose connections may result in connector heated, melt down or burning damage while charging/ discharging. (Please note: if poor connection result in battery damage, is not covered under warranty policy).

8. The battery should be fixed and protected on flat strong place on the device, hanging or loose

fixed are forbidden. Avoid damage from battery dropping or hitting the device. Seriously may result in fire or even injury.

9. After the battery is installed correctly. Connect the charger to charge or give a throttle, the BMS bluetooth will active again. Connect bluetooth in the BMS APP, go to BMS Control, turn on the discharge switch <OnDisCHG> button.

10. Should you have any question on installing battery, please contact AMORGE team.

6.How to download and install the BMS APP

1. Every AMORGE Battery is with a label with QR code on the battery.




2. You can scan the QR code with your phone, download the correct app in the page. Or directly go to

<https://www.amorge.com/bluetooth-apps>

(BMS instruction and connecting guide video are in this page).

3. If needs to modify the parameters, please confirm with AMORGE. Modifying the parameter may damage the battery. (Please note: Any modification of parameters without consent of AMORGE that results in battery damage is not covered under warranty.)

7.To Charge the Battery

- 1. Please confirm the charge environment temperature is within 0~60°C(32°F~140°F).**
- 2. Please charge the battery in a cool dry opened place, keep away from inflammable items.**
- 3. Not recommend to charge the battery if nobody at home. Always pay attention when charging.**
- 4. Make sure the poles of battery and charger are matched. The ordered battery and charger are matched, they are tested. You can connect to charge directly. If you are using your own charger, be sure the voltage, current and positive/ negative poles are matched.**
- 5. Make sure the connection is tight.**
- 6. Remove the charger after full charged.**
- 7.  Charge the battery to 80% one time every two months if not use.**

8.Storage


Storage Temperature:

1 year, 0~25°C(32°F~77°F);

3 months, 0~45°C(32°F~113°F);

1 month, 0~60°C(32°F~140°F).

Please storage in cool dry opened place, far away from inflammable items.

If the battery was installed to the Electric Vehicle or device, because of the device circuit, the voltage will drops faster than no installing. If not use, no need to take battery off from the device, but recommend to turn of discharge switch. And  charge the battery to 80% one time every two months, to avoid battery going into the protecting status or die.

9. Warranty Policy

1. Introduction

This warranty policy outlines the terms and conditions under AMORGE guarantees the performance and quality of its battery packs. This policy applies to all batteries purchased from AMORGE and is valid only for the original purchaser. Please keep your purchasing invoice and purchasing record.

2. Warranty Coverage

AMORGE warrants that the batteries free from defects in materials and workmanship under normal use and service for a period of ONE YEAR from the date of receiving the battery.

This warranty covers:

- Manufacturing defects.**
- Failure to meet specified capacity or performance standards under normal operating conditions.**

3. Warranty Exclusions

This warranty does not cover:

- Damage caused by misuse, abuse, neglect, or**

improper handling.

- Damage resulting from unauthorized repairs, modifications, or alterations.**
- Normal wear and tear, including capacity degradation over time.**
- Damage caused by exposure to extreme temperatures, moisture, or corrosive environments.**
- Use of the battery pack with incompatible devices or chargers.**
- Damage caused by accidents, drops, or impacts.**
- Damage cause by unauthorized modification of BMS parameters.**
- Damage cause by over-power using, over-voltage or over-current charging.**

4. Warranty Claims

To make a warranty claim, the purchaser must:

- Provide proof of purchase (e.g., receipt, payment slip, invoice).**
- Contact AMORGE customer service within the warranty period.**
- Follow the instructions from AMORGE to**

provide information of the defective battery pack (including description, photos, videos, and SystemLog information).

AMORGE reserves the right to inspect the battery pack to determine if the defect is covered under this warranty.

5. Remedies

If the battery pack is found to be defective and covered under this warranty, AMORGE will at its sole discretion:

- Help to repair the battery pack.**
- Replace the battery pack with a new battery**
- Refund the purchase price (pro-rated based on usage and remaining warranty period).**

6. Limitations of Liability

This warranty is the purchaser's exclusive remedy and replaces all other warranties, whether express or implied, including but not limited to warranties of merchantability or fitness for a particular purpose. AMORGE shall not be liable for any incidental, consequential, or indirect damages arising from the use or inability to use the battery pack.

7. Warranty Transferability

This warranty is non-transferable and applies only to the original purchaser.

(If the battery is second hand, please ask your seller to contact AMORGE for warranty)

8. Contact Information

For warranty claims or inquiries, please contact your seller or the following info:

HONGKONG AMORGE TRADING CO., LIMITED.

Email: info@amorge.com

Website: www.amorge.com

10. Latest Version of user's guide please refer to the official page:

<https://www.amorge.com/support>



**THANK YOU FOR PURCHASING AMORGE
PRODUCTS.**

**SHOULD YOU HAVE ANY QUESTION ON
AMORGE BATTERIES. WELCOME TO
CONTACT AMORGE TEAM.**



**MORE INFORMATION PLEASE GO TO
WWW.AMORGE.COM**

