

A-SERIES BATTERIES

(A-52, A-52L)

User Guide



Disclaimer

This user guide contains important information regarding the safe usage and maintenance of the product. It is essential to read and understand the contents of this manual before using the battery pack. CYC Motor Ltd is not liable for any damages, injuries, or malfunctions resulting from misuse, improper installation, or neglect of the guidelines provided in this manual.

Please note that the information in this manual is subject to change without prior notice. The user is responsible for ensuring the proper use and care of the ebike battery pack in accordance with the instructions provided herein. Any modifications or alterations to the battery pack may void the warranty and pose safety risks.

By using this ebike battery pack, the user acknowledges and accepts the terms and conditions outlined in this manual. For any questions, concerns, or additional information, please contact CYC Motor Ltd or an authorized reseller.



TABLE OF CONTENTS

| | |
|-------------------------------------|-----------|
| SAFETY & PRECAUTION..... | 1 |
| Precautions for Use | 1 |
| Installation & Use | 2 |
| Battery Pack Care..... | 2 |
| SPECIFICATIONS..... | 3 |
| Description | 3 |
| Compatibility..... | 3 |
| Battery Types..... | 3 |
| Battery Range..... | 3 |
| Battery Life Expectancy | 4 |
| General Specifications | 4 |
| Dimensions | 5 |
| A-52 Battery Dimensions..... | 5 |
| A-52L Battery Dimensions..... | 6 |
| Features | 7 |
| Package Inclusions..... | 7 |
| INSTALLATION | 8 |
| Required Tools | 8 |
| Operating Notice | 8 |
| Mounting Method | 8 |
| Under the downtube | 9 |
| Inside the triangle | 10 |
| Wiring & Connection..... | 11 |
| Charger | 11 |
| Charging Instructions..... | 11 |
| Warnings..... | 11 |
| GENERAL MAINTENANCE | 12 |
| Storage | 12 |
| WARRANTY..... | 12 |



| | |
|------------------------------------|-----------|
| Warranty Registration | 12 |
| Warranty Terms and Conditions..... | 13 |
| CERTIFICATIONS..... | 16 |
| CONTACT INFORMATION..... | 16 |
| DOWNLOADS..... | 16 |

SAFETY & PRECAUTION

Precautions for Use

Lithium batteries are classified as hazardous materials and are prohibited from being charged in the bedroom or living room to prevent fire and damage to life and property. Charging must be completed in an open or well-ventilated area.

For your safety, please read this full instruction before use:

Only charge the battery pack at an ambient temperature between 41 °F (5 °C) and 131 °F (55 °C) and discharge the battery between -4 °F (-20 °C) and 131 °F (55 °C).

Disconnect the battery from the bike when not in use. A small amount of power continues to be used while the battery is attached to the bike, and this may cause the battery to be over-discharged, resulting in shorter battery life or complete battery failure and voiding your warranty.

Always store the battery in a cool dry place.

Ensure to familiarize yourself with the battery's storage guidelines provided in this manual. Failure to maintain the battery's charge due to improper storage could damage the battery and void your warranty.

If the battery's charge duration or riding range is extremely short after recharging or it becomes impossible to recharge the battery, your battery has reached the end of its service life. Replace it with a new one.

Remove the battery from the charger after it is fully charged, do not leave the battery on the battery charger for a long period of time. Failure to remove the battery from charge could damage the battery and void your warranty.

If at any time you have concerns about your battery, do not use it and seek expert assistance.

Always dispose of used batteries at an approved recycling location, never dispose of your battery with general house waste.



Installation & Use

Follow the installation guidelines provided in this manual to fit your battery pack securely to your bicycle frame. This product is manufactured to be used as an electric bicycle battery pack for powering the CYC Motor Ltd mid-drive motor product line. Using this battery for anything other than its intended use, is not recommended and will not be supported by CYC Motor Ltd.

The installation guidelines also provide you with clear instructions on usage and charging. Kindly be mindful when using and charging this product.

The A-Series battery packs are intended to be mounted on a standard bicycle frame using the steel battery plate and the accessories provided. This user manual includes instructions for two common and recommended mounting positions for your reference. Kindly note that mounting positions where all accessories are used, is up to the user's own discretion and risk.

The battery unit will be activated and deactivated by switching on your kit's display as well as pressing the POWER button on the battery pack itself once all the components are installed and connected accordingly. Do not attempt to alter this method.

Do not install anything other than the parts and accessories that came with the battery unit. Doing so could damage the product.

Be sure to familiarize yourself with the product warnings provided in this user manual.

Battery Pack Care

- Do not let the battery become wet or immersed in water.
- Do not drop or submit the battery to strong shocks or impacts.
- Do not allow sand, dust, water, or substances to get in contact with the battery's terminals.
- Do not charge a battery with an unauthorised battery charger.
- Do not leave the battery in direct sun, near heating equipment, or in a closed car on a summer day.
- Do not touch the terminals of the battery with conductive objects such as jewellery, keys, coins, hairpins, etc.
- Always ensure your battery is locked or in a secure location.
- Do not heat or incinerate the battery.
- Do not attempt to reconstruct, disassemble, deform, or short-circuit the battery.



SPECIFICATIONS

Description

The A-Series ebike battery packs are intended to be mounted on a standard bicycle frame using the battery mounted provided. This user manual includes instructions for two common and recommended mounting positions for your reference.

Compatibility

This battery pack is designed to be compatible with CYC Motor Ltd's mid-drive motor system product range. Please note that the power output of the system will be dependent on the specific motor and battery combination chosen. Different motor and batteries may provide varying levels of performance and range.

We recommend consulting with CYC Motor Ltd or authorized resellers for guidance on selecting the appropriate motor and battery combination to best suit your riding needs and preferences.

Battery Types

There are different types of bike batteries, with the power and quality varying depending on the battery you have chosen to purchase. Depending on the power demands or energy consumption of your bike, the riding range and life of a battery can vary.

Battery Range

The range of an electric bike varies greatly and depends on several factors. It depends on the power rating of the battery, the support position, and the weight of the rider. External factors such as environment, temperature and wind conditions also influence the range. A flat even surface will always provide increased range over a hilly uneven surface when riding. Colder environments can decrease range by up to 40%, in extreme conditions it is normal for a battery to have a lower range during winter months.

Maximise Range: Your battery should be fully charged before departure. You can increase your range by inflating the tyres, as the bike will have less rolling resistance. Carry your charger with you if you are planning a long ride and recharge when taking a break.



Battery Life Expectancy

Lithium batteries are very reliable, and the lifetime of your battery is expressed in the number of cycles of charging and then discharging/emptying. About 1000 complete cycles are normal for most lithium bike batteries. However, poor maintenance and handling will greatly impact the life of your battery, no matter the age of the battery.

If you wish to extend the life of the pack, keeping the battery between 20% and 80% state of charge will greatly increase the life expectancy of the pack.

General Specifications

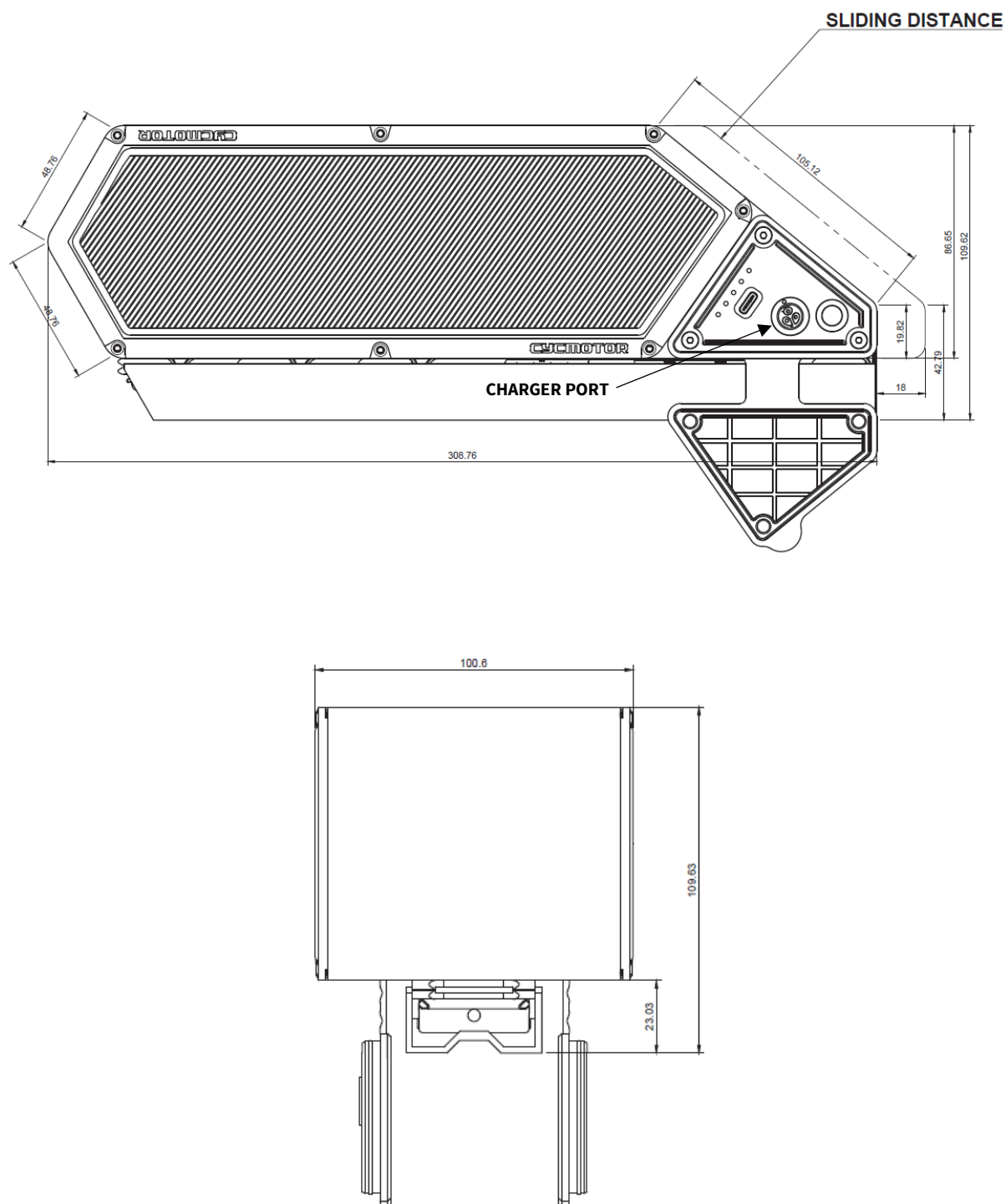
| | A-52 | A-52L |
|---|----------------------------|----------------------------|
| Rated Battery Voltage | 52V (14s2p) | 52V (14s3p) |
| Battery Cell Type | Original Samsung 50S 21700 | Original Samsung 50S 21700 |
| Battery Capacity | 10Ah (520Wh) | 15Ah (780Wh) |
| Maximum Continuous Discharge Current | 50A | 80A |
| Maximum Charge Current | 10A | 15A |
| Dimensions (L*W*H) | 309mm * 100mm * 110mm | 322mm * 131mm * 130mm |
| Total Weight | 3.7 kg | 5 kg |

***Compatible with all CYC motor systems



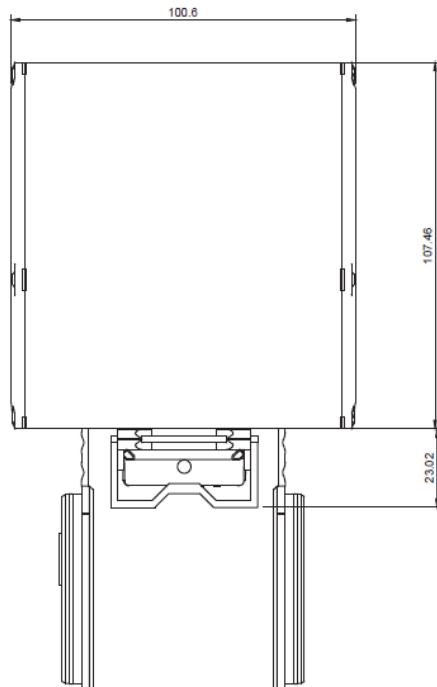
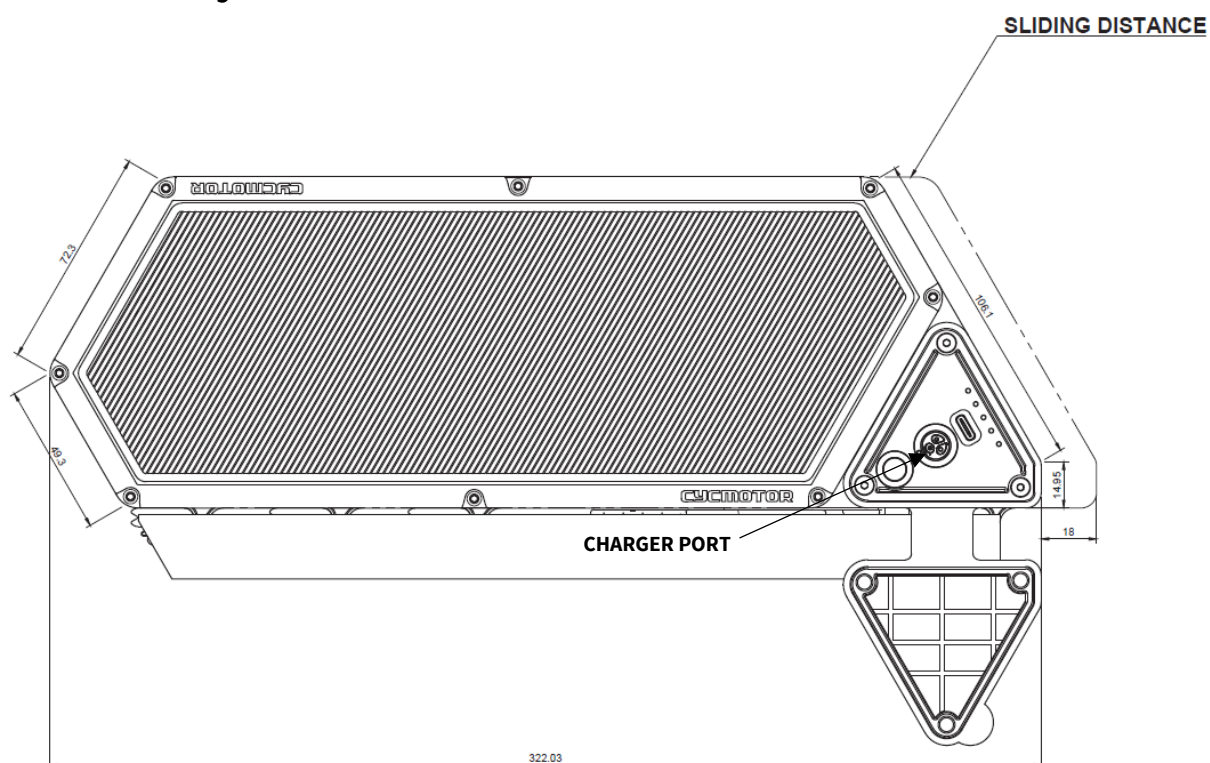
Dimensions

A-52 Battery Dimensions





A-52L Battery Dimensions



Features

- High discharge BMS with short-circuit protection
- Original high-quality Samsung 21700 cells
- Quick release and lock-up solution
- CNC with aluminium case for durability
- Ice-blue battery level indicators
- Weather and impact resistant
- Fast charging capabilities
- Type C charger port

Package Inclusions

- 1x A-Series Battery
- 1x Battery Plate
- 1x Battery Charger
- 2x Velcro Strips
- 4x Zip ties
- 2x Hose Clamps
- 4x Double-Sided Tape
- 2x Battery Keys
- 1x Instruction Card
- 6x M5*6 Round hex screws

All parts listed are included in the package with every purchase. Should you be missing a part, kindly contact CYC Motor Ltd or an authorised reseller immediately along with your order number as reference.



INSTALLATION

Required Tools

- 3mm Allen Key / Hex Key

Operating Notice

RIGHT-HAND and LEFT-HAND sides are determined by the bike handle; Right-hand corresponds to the right handle.

Mounting Method

1. Measure the placement of the battery pack on your bike frame and place it on your desired location.
2. If your frame has designated screw ports, use the screws provided to screw on the battery mounting rail to the frame.
3. If your frame has bottle holder supports, you can use the screws for that and mount the battery mounting rail directly to the frame via the screw mounting slots in the middle of the battery mounting rail.
4. If your frame does not have screw holes, use the provided double-sided tape to place between your reference spot. This step can also be done under the screws to protect the frame from scratching.
5. After installing the battery mounting rail, take the battery pack and softly slide into the battery mounting plate. Once in; firmly press down to lock the battery in place. If the battery does not move, it is now locked.
6. Using the battery LIPO connector, plug the battery into the motor's designated battery plug.
7. To ensure your battery is charged, pull down the right-side cover, and press the power button down. The LED indicators will illuminate with the battery's current charge indication.

Under the downtube

1. Select a mounting position on your bike frame that fits under the downtube.
2. Place the provided double-sided tape strip provided above the battery mounting plate.



3. Stick the adhesive beneath the frame and tighten the hose clamps or zip ties depending on which ones are used.
4. Gently place the battery into the battery mounting plate. Then firmly press the battery down, locking it in place.





Inside the triangle

1. Select a mounting position on your bike frame that fits over the bottle cage mount inserts.
2. Unscrew the 4x M5 mounting bracket bolts with a 3mm Allen Key and secure the battery mounting rail into position by fastening the bottle cage mount insert screws.



3. Slide the battery into the battery mounting plate then firmly press down to lock the battery mechanism in place. Each time before riding, use the battery pack's lock key provided to lock the battery in place. If the battery doesn't move, it's now locked.
4. You may use the provided velcro strips, zipties or hose clamps under the battery mounting rail to further secure the battery into the battery mounting plate.





Wiring & Connection

Battery mount to controller connector: XT-90 connector

Battery mount to battery pack connector: Anderson

Wire: 10 AWG

Charger

The charger is specially designed for charging lithium-ion batteries. It is equipped with an integrated fuse and overcharging protection.

Charging Instructions

1. Plug the charger into the wall socket.
2. Connect the battery to the charger at the charge port as shown below.
3. Leave until fully charged (approx. 2-3 hours from empty)
4. Unplug after fully charged.

The battery can stay mounted on the bike or be taken off for charging. See page 10 for more information.

Warnings

- Before use, ensure the charger, cable and plug are not damaged. If you notice any damage, do not use the charger due to risk of electrical shock.
- Refrain from charging the battery packs outdoors.
- Unplug the battery pack after it's fully charged do not leave it connected to the charger for a long period of time.
- Do not interfere with the wires or connectors while charging.

GENERAL MAINTENANCE

- Use the designated lithium battery charger when charging.
- Do not reverse or short the positive and negative terminals of the battery pack.
- Do not place the battery pack in high temperatures, such as near fire.
- Do not place the battery in water, acid, alkaline or salty liquids, avoid submersion.
- Do not open the battery without special instruction.
- Do not invert the battery module inside the pack.

Storage

The batteries should be stored at room temperature, charged to about 30% to 50% capacity.

Batteries should be charged about once per half year to prevent over discharge if placed in long term storage



NOTICE: Because batteries utilize a chemical reaction, battery performance will deteriorate over time even if stored for a long period without being used. In addition, if the various usage conditions such as charge, discharge, ambient temperature, etc. are not within the specified ranges, the life expectancy of the battery may be shortened or the device in which the battery is used may be damaged by electrolyte leakage. If the batteries cannot maintain a charge for long periods of time, even when they are charged correctly, this may indicate it is time to change the battery.

WARRANTY

Warranty Registration

Register for warranty by scanning the QR code below and submitting the form. By registering this product for warranty, you agree to the terms and conditions specified in this user guide.



Scan this code for warranty registration



Warranty Terms and Conditions

This product has a 12-month warranty period. Warranty from date of purchase for private use, against possible manufacturing defects for electric bike batteries. Warranty only valid for the original purchaser and an original invoice or proof of purchase must be produced.

Examples of items that are not covered by the warranty:

- As your battery ages, there will be a loss in storage capacity and riding range, which is normal and not covered under the warranty
- All warranties will be voided if any modifications are made to our products
- Minor scratches, marks, or imperfections
- Over discharge due to improper storage
- Damage due to external causes, e.g. damage by negligent use, incorrect use, installation and tampering with the battery pack, damage by traffic accidents and damage during any transportation, e.g. by couriers
- Damage due to normal wear and tear and maintenance
- Batteries lose capacity naturally and need to be maintained
- Poor maintenance and any modifications to the battery
- If the safety seal is broken, indicating the battery casing has been opened
- If your battery is stolen or misplaced

We do not warrant batteries used with other controllers outside CYC Motor Ltd unless it is clear the battery is at fault. We will facilitate repairs if a battery has been damaged from another controller or motor.

It is warranted that the battery retains 80% of capacity after 1 year, 1 year from the purchase date, for private use.

For the avoidance of doubt: We make no representations or warranty in relation to the existence, non-existence, validity, availability, terms or conditions of any other warranties or product support that may or may not be offered or provided by the manufacturer of the Product; The warranties and product support that we offer and provide pursuant to our Terms and Conditions are in addition to the consumer warranties and guarantees under your country's Consumer Law.



Subject to the terms and conditions set out below, CYC Motor Ltd agrees to repair or replace the product which it supplied to you at its own cost, in circumstances where the Product does not perform in accordance with CYC Motor Ltd specifications during the Warranty period of 12 months for manufacturer faults.

The Standard warranty period commences on the date of delivery or collection of the Product. Where there is no proof of delivery, the date of delivery of the product will be assumed to be 7 business days from the date of dispatch of the Product.

The benefits provided to you by this contractual product warranty are in addition to other rights and remedies available to you under the law.

Proof of purchase (invoice or paid order confirmation) must be provided when requesting service under the Warranty and all reasonable attempts must be made by the customer to supply the details and BMS information from the battery as requested by CYC Motor Ltd to determine the fault.

Any repair service under warranty must be approved by CYC Motor Ltd or an authorised reseller. If a customer decides to perform repairs on a product without the approval of CYC Motor Ltd, warranty will be void.

Where Products are already faulty or damaged upon delivery, photographic evidence of the damage must be submitted to the supplier of the battery and in turn to CYC Motor Ltd via email before the battery will be repaired or replaced in accordance with these terms.

CYC Motor Ltd reserves the right to replace the battery with the same battery, rather than repair it. Where a replacement is provided, CYC Motor Ltd will determine, in its discretion, the closest battery within the then current range of Products offered by CYC Motor Ltd with which to replace the faulty or damaged Product. The replacement battery may differ with the replaced batteries specifications, at the reasonable election of CYC Motor Ltd, as battery specifications can alter from time to time. Replacement of the battery does not extend or restart the Warranty period.

If CYC Motor Ltd is unable to repair or replace the battery, the customer will be provided with credit or may be refunded the price of the Product (at CYC Motor Ltd's election). This credit or refund will be for the purchase price of the Product excluding the associated Delivery Cost.

The Customer is responsible to inspect all goods received from CYC Motor Ltd upon arrival. In instances where goods have been damaged in transit, the Customer must report this to the supplier who in turn will report this to CYC Motor Ltd within 7 days of receipt of the product.



Failure to report physical damage on arrival within 7 days of receipt may result in denial of warranty for physical damage.

The Product will be at the Customer's risk while in transit to and from CYC Motor Ltd.

CYC Motor Ltd may seek reimbursement of any costs incurred where the Product is found to be in good working order, or when it has been determined that the Warranty do not apply or void.

CYC Motor Ltd reserves reasonable discretion to determine whether any battery is or is not performing in accordance with the CYC Motor Ltd specifications and general industry expectations, subject to applicable law.

The Warranty is not transferable to a new owner of a Product originally purchased from CYC Motor Ltd or their associated dealers.

To the full extent permitted by law, the Warranty will not apply in respect of a battery: If the Product has not been installed, operated, maintained or used in accordance with the manufacturer's instructions or specifications provided with the battery; If the factory-applied serial number has been altered or removed from the Product; Which has suffered damage, malfunction or failure resulting from alterations, any alterations (hardware or software), accident, misuse, abuse, fire, liquid spillage, mis-adjustment of customer controls, use on an incorrect voltage, power surges and dips, thunderstorm activity, force majeure, voltage supply problems, tampering or unauthorised repairs by any persons, use of defective or incompatible accessories, exposure to abnormally corrosive conditions or entry by any insect, vermin or foreign object in the Product; To damage arising during transportation, installation or while moving the Product, or to any transportation costs of the Product or any parts thereof to and from the Customer, unless otherwise specified in these Warranty Terms and Conditions; To any third-party software or hardware not contained in the Product as originally configured by the manufacturer; To any incidence of defective pixels (i.e. dead or stuck pixels) that arise for Digital Products; To any failure, to the extent that the failure is not a failure of the Product to perform in accordance with its specifications; To service and support of any software operating system or application installed on any Product, except to assist in restoring the Product to its factory default settings.

To the full extent permitted by law: CYC Motor Ltd will not be liable for any loss, damage or alterations to third party hardware, software, programs, data and/or information stored on any media or any part of the Product, no matter how occurring; or for any loss or damage arising from loss of use, loss of profits or revenue, or for any resulting indirect or consequential loss or damage. CYC Motor Ltd's aggregate liability in respect of all claims under the Warranty shall not exceed the original purchase price of the Product or, at CYC Motor Ltd's option, replacement of the Product



with a like or similar Product. CYC Motor Ltd excludes all other warranties, conditions, terms, representations, and undertakings whether express or implied.

Insofar as they apply to warranties relating to CYC Motor Ltd Products supplied by CYC Motor Ltd, these Warranty Terms and Conditions are governed by and must be construed according to the law of Hong Kong.

All warranties are voided if any of our products sold through CYC Motor Ltd are modified or rebuilt or opened.

CERTIFICATIONS

This product complies with UN38.3, IEC62133, RoHS, FCC, and CE standards.



CONTACT INFORMATION

Kindly submit a form at www.cycmotor.com/contact-us.

DOWNLOADS

Kindly download alternative materials such as user manuals or guides in our Downloads page (www.cycmotor.com/cycmotor-downloads) or scan the QR code below. All materials listed below are freely available to download on our website.

What's included:

- Instruction Cards
- User Manuals
- CYC Mobile App User Guides
- 1:1 printouts for mounting reference

