

CYCMOTOR LTD.

B-SERIES EBIKE BATTERY PACKS

(B-36 ; B-52 ; B-52L)

User Manual



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General Safety

Kindly read through the entire user manual. This manual contains important information to reduce user risk as well as instructions for this product's proper use. Do not discard the manual but keep it for reference.

Note that the user's personal safety remains the user's responsibility and that the user must contact CYCMotor Ltd or their official product dealer directly for any further guidelines or assistance.

This product is an electrical system that is dangerous for children and must always be handled by an adult. Small components and accessories may also present a choking hazard. Keep this product and its accessories out of reach from children.

Keep all electrical wires secured as exposed wires could lead to serious injury or product damage. Also inspect the condition of the wires regularly for any damage.

Never interfere with the parts or attempt to disassemble the internal parts of the battery when the battery is connected or switched on. This could result in serious injury or damage to the product.

All components and accessories may only be replaced with identical components directly supplied by CYCMotor Ltd or an official product dealer. CYCMotor Ltd cannot be held liable for any damages as a result of using unapproved parts.

Before the Ride

Ensure that the battery mount is fastened securely to the frame and that the battery is secured to the mount. Incorrect mounting could cause the system to move its position and result in injury while riding. Inspect the mounting position regularly.

Ensure that all wiring is dry before connecting it to the motor system.

When connecting the battery, make sure that it is properly connected. Faulty connection could result in a short circuit and damage the motor system and/ or battery.

Secure all wires properly. Make sure that no loose wires are dangling from the bike that could be jammed into any moving parts.

Inspect electrical wires and plugs regularly for any damage.



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 CYCMotor 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 CYCMotor Ltd.

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

The B-Series ebike battery packs are intended to be mounted on a standard bicycle frame using the steel battery mount and the 3x straps provided. This user manual includes instructions for two common and recommended mounting positions for your reference. Kindly note that mounting positions where all 3x straps are not 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 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.

Disclaimer

If you require any more information or have any questions about the user manual disclaimer or the content provided, please feel free to contact us via email at support@cycmotor.com or call +852 3690 8938.

All the information contained in this user manual is published in good faith and for general informational purposes only. CYCMotor Ltd does not make any warranties about the completeness of this information and encourages further inquiries as stated above if needed. CYCMotor Ltd will not be held liable for any losses and/or damages in connection with the use of this product. The use of this product is at the user's own risk and discretion.

Keep this manual, along with other documents that were included with your battery, for future reference. All content in this manual is subject to change without notice. Please be sure to visit cycmotor.com to view and download the latest version.

Note that this manual is not intended as a detailed user, service, repair or maintenance manual. Your insurance policies may not provide coverage for accidents involving the use of this product.

Notice: Please contact CYCMotor Ltd if you are unsure about the assembly instructions or for any further assistance as CYCMotor Ltd will not be held liable for any losses and/ or damages caused by the assembly.

PLEASE USE RESPONSIBLY.



Description

This product is a lithium electric bicycle (ebike) battery pack designed to complement the CYC product line. The B-Series eBike Battery is an efficient, long-lasting energy source with fast charging capabilities. It is equipped with a Battery Management System (BMS) that ensures safe operating and reliable data. This is the ideal power solution for users of the CYC product line.

General Specifications

| | B-36 | B-52 | B-52 | B-52L | B-52L |
|--------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Rated Battery Voltage | 36V (2p10s) | 52V (2p14s) | 52V (2p14s) | 52V (3p14s) | 52V (3p14s) |
| Cell | Original Samsung 50e 21700 | Original Samsung 50e 21700 | Original Samsung 40T 21700 | Original Samsung 50e 21700 | Original Samsung 40T 21700 |
| Battery Capacity | 10Ah (360Wh) | 10Ah (520Wh) | 8Ah (416Wh) | 15Ah (780Wh) | 12Ah (624Wh) |
| Maximum Continuous Discharge Current | 30A | 30A | 70A | 45A | 70A |
| Maximum Charge Current | 3A | 4A | 4A | 4A | 4A |
| Weight of battery pack | 2.2 kg | 2.9 kg | 2.9 kg | 4.3 kg | 4.3 kg |
| Weight of battery mount | 0.1 kg | 0.2 kg | 0.2 kg | 0.3 kg | 0.3 kg |

*** Compatible with all CYC motor systems



Features

- High discharge BMS with short circuit protection
- Secure & versatile dual-mounting solution
- Original high quality Samsung 21700 cells
- Stealthy & compact bag-like design
- Ice-blue battery level indicators
- Quick removal for portability
- Weather & impact resistant

Package Inclusions

- High impact polycarbonate battery case (with Samsung 40T/ 50E cell module, Battery Management System (BMS), & line out with spark proof XT90-S connection encased in ABS+PC)
- Battery mount with padding pre-assembled to battery case with M5 bolts
- Lithium ebike battery charger
- Velcro mounting strap x 4pcs (B-36, B-52, & B-52L includes 2x 20*250mm mounting straps & 2x 25*350mm mounting straps)

- Bolts
B-36: M5*10 x 4, spacer x 4, spring washer x 4
B-52: M5*10 x 4, spacer x 4, spring washer x 4
B-52L: M5*10 x 6, spacer x 6, spring washer x 6
- Zip ties
B-36: 4 pcs
B-52: 6 pcs
B-52L: 8 pcs
- Brochure

All parts listed are included in the package with every purchase. Should you be missing a part, kindly contact support@cycmotor.com along with your order number as reference.

Thank you.



Dimensions

B-36



- 199mm (L) X 81mm (W) X 104mm (H)

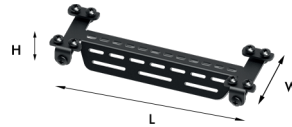


- 119mm (L) X 66.74mm (W) X 17mm (H)

B-52



- 259mm (L) X 81mm (W) X 104mm (H)

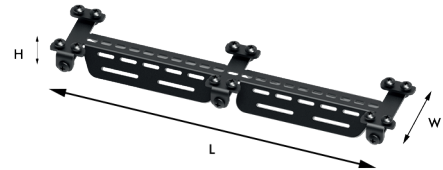


- 171mm (L) X 66.74mm (W) X 17mm (H)

B-52L



- 364mm (L) X 81mm (W) X 104mm (H)



- 276mm (L) X 66.74mm (W) X 17mm (H)



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 & vice versa.





Method #1: Strapping on battery pack



Step 1

- Select a mounting position on your bike frame that will provide a 3-point support for the straps.



Step 3

- Wrap the straps around the frame and secure them tightly for stability. Zip ties can be added for extra security.



Step 2

- Thread 2x 25*350mm straps through the mounting bracket & 1x 20*250mm through the side bracket. Note that the above image is for reference only. Straps can be placed as needed.



Step 4

- Plug in the connector by the XT90-S port to the motor system's battery pack.

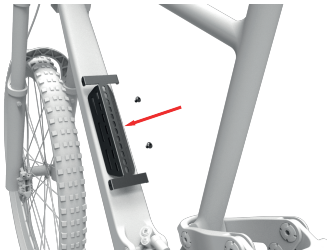
03 INSTALLATION

Method #2: Bolting battery pack on frame



Step 1

- Select a mounting position on your bike frame that fits over the bottle cage mount inserts.



Step 3

- Secure the battery mount into position by fastening bottle cage mount insert screws.



Step 2

- Unscrew the 4x M5 mounting bracket bolts with a 3mm Allen Key.



Step 4

- Secure the battery pack with the bolts in Step 2. Make sure to include a spacer and a spring washer in between each bolt and metal hook for best securing. Add straps if needed.



Bolt on through water bottle mounting:



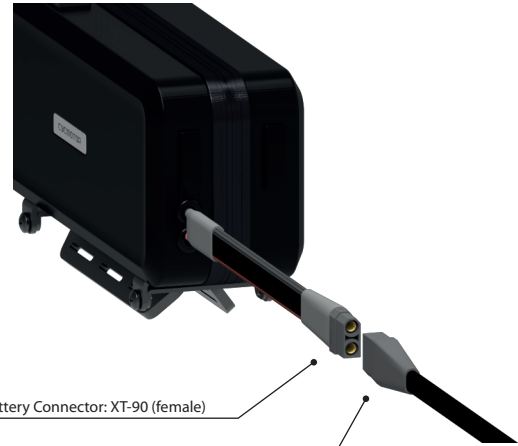
Step 5

Plug in the connector by the XT90-S port to the motor system's battery port.

Wiring & Connection

Battery Connector: XT-90 (female)

Wire: 10 AWG (red wire to positive pole & black wire to negative pole)



Controller Connector: XT-90 (male)



Charging instructions

- Plug the charger into the wall socket.
- Connect the battery to the charger at the XT90 connector side.
- Leave until fully charged (approx. 2 - 4 hours from empty).
- Unplug after fully charged for safety precautions.

B-36

Charger Type: 36V 4A XT90
Charge Time: 3.5 hours until fully charged
Charge Cycles: 600

B-52

Charger Type: 58.8V 4A XT90
Charge Time: 2 - 2.5 hours until fully charged
Charge Cycles: 600

B-52L

Charger Type: 58.8V 4A XT90
Charge Time: 3 - 4 hours until fully charged
Charge Cycles: 600

The battery can stay mounted on the bike or be taken off for charging.
Charge the battery pack fully every 2 months if not used regularly.

Warnings

- Refrain from charging the battery pack outdoors
- Unplug the battery pack after it is 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

- Please place the battery pack in a cool and dry environment if you do not use it for a long time; charge for 2 hours every month when stored.
- Use the designated lithium battery charger when charging.
- Keep away from children.
- 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 pack 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.





Warranty

CYCMotor Ltd offers a one year warranty for the battery pack and charger. Man-made failure and other parts are excluded from our warranty.

Any attempts to modify this product will void warranty.

For any replacement parts, please visit the CYCMotor Ltd official online store at www.cycmotor.com/shop or contact an official product dealer.

Certifications

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



Contact Information

For customer support, including

- shipping;
- quotes, and
- sales

email to: support@cycmotor.com

For technical support, including

- build assistance;
- recommendations;
- troubleshooting, and
- product related queries

email to: technical_support@cycmotor.com

phone to: [+852 3690 8938](tel:+85236908938)

Office Hours

Monday to Friday

9am - 6pm

Hong Kong Time

NOTES





<https://www.cycmotor.com/>