

B-SERIES EBIKE BATTERY PACKS (B-36 ; B-52 ; B52L)

User Manual



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SAFETY & PRECAUTION

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 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 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. Please 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/downloads to view and download the latest version.



TECHNICAL SPECIFICATIONS

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)
Battery 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 of 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 straps x 4pcs
 - B-36, B-52, & B-52L includes 2x 20*250mm mounting straps & 2x 25*350mm mounting straps)
- Bolts
 - B-36:
 - 4x M5*10
 - 4x spacer
 - 4x spring washer
 - B-52:
 - 4x M5*10
 - 4x spacer
 - 4x spring washer
 - B-52L
 - 6x M5*10
 - 6x spacer
 - 6x spring washer
- Zip ties
 - B-36: 4 pcs
 - B-52: 6 pcs
 - B-52L: 8 pcs
- Instruction Card

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

Battery	B-36	B-52	B-52L
Length (L)	210 mm	274 mm	377 mm
Width (W)	86 mm	86 mm	86 mm
Height (H)	112 mm	112 mm	112 mm
Battery Mount			
Length (L)	119 mm	171 mm	276 mm
Width (W)	66.74 mm	66.74 mm	66.74 mm
Height (H)	17 mm	17 mm	17 mm

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.

Strapping on battery pack



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



3. Wrap the straps around the frame and secure them tightly for stability. Zip ties can be added for extra security.
4. Plug in the connector by the XT-90S port to the motor system's battery port.



Bolting battery pack on frame

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.



3. Secure the battery mount into position by fastening the bottle cage mount insert screws.
4. Secure the battery pack with the bolts in Step 2. Make sure to include a spacer and a spring washer in between each bolts and metal hook for best securing. Add straps if



needed.

Bolting on through water bottle mounting

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

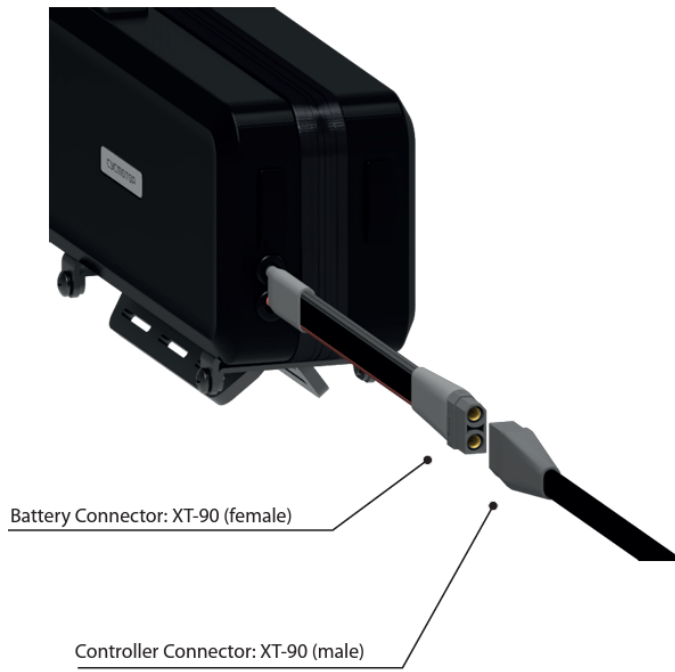




Wiring & Connection

Battery Connector: XT-90 (female)

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





CHARGE INFORMATION

Charging Instructions

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

	B-36	B-52	B-52L
Charge Type	36V 4A XT90	58.8V 4A XT90	58.8V 4A XT90
Charge Time	3.5 hours until fully charged	2 – 2.5 hours until fully charged	3 – 4 hours until fully charged
Charge Cycle	600	600	600

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

Warnings

- 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

- 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 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

This product has a 1-year warranty period. Man-made failures are excluded from warranty. Terms and conditions apply. Please visit www.cycmotor.com/refund-and-return-policy for more information.

For any queries or complaints, please contact us directly at support@cycmotor.com or visit our online store for replacement parts at www.cycmotor.com/shop.

CERTIFICATIONS

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

CE FCC RoHS

CONTACT INFORMATION

For customer support, including shipping, quotes, tax, and sales -> support@cycmotor.com

For technical assistance, including build assistance, recommendations, troubleshooting, and product related queries -> technical_support@cycmotor.com.



Office Hours

Monday to Friday

9AM – 6PM (Hong Kong Time HKT)

DOWNLOADS

Kindly download the display & mobile app user manuals in our Downloads page (www.cycmotor.com/cycmotor-downloads) or scan the QR code. 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

