

X-Series Batteries (X-36 ; X-52 ; X-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 CYC Motor Ltd or an 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 CYC Motor Ltd or an official product dealer. CYC Motor Ltd cannot be held liable for any damage 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 controller.

When connecting the battery, make sure that it is properly connected. Faulty connection could result in a short circuit and damage the controller 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 user 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.

The installation guidelines also provide you with clear instructions on usage and charging. Kindly be mindful regarding the charging information.

The battery pack is intended to be mounted to the 2 mounting holes in the bicycles downtube where a water bottle cage would normally be. We have included instructions for this standard and recommended mounting position for your reference. Kindly note that any other mounting position is up to the user's own discretion and risk.

The battery level can be checked by pressing down the silver, circular button. Do not fast press this button continuously.

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, kindly 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. CYC Motor Ltd does not make any warranties about the completeness of this information and encourages further inquiries as stated above if needed. CYC Motor 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.

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



Description

This product is a lithium electric bicycle (e-bike) battery pack designed to complement the CYC Motor product line. The X-Series E-bike 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 reading.

General Specifications

	X-36	X-52	X-52L
Battery Voltage	36V (2p10s)	52V (2p14s)	52V (3p14s)
Battery Capacity	8Ah (288Wh)	8Ah (416Wh)	12Ah (624Wh)
Maximum Continuous Discharge Current	60A	60A	80A
Maximum Charge Current	2A	4A	4A
Weigh (Battery Only)	2.3 Kg	3.2 Kg	4.5 Kg
Weight with Mount	2.6 Kg	3.5 Kg	4.8 Kg
Weight with Mount & Magnets	2.8 Kg	3.7 Kg	5 Kg

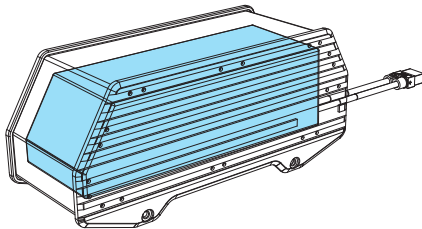
*** Compatible with X1 Pro Gen 1, X1 Pro Gen 2, & X1 Stealth



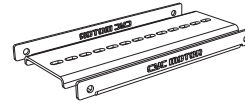
Features

- Quick removal for portability.
- Ice blue battery level indicator for easy indication during use.
- Industrial design casing to fit with the aesthetic of the CYC mid-drive system line-up.
- Custom made gasket.
- Magnetic battery mount helps to prevent the frame and battery components from damage upon impact.

Package Inclusion



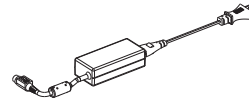
- High Impact Polycarbonate Battery Case (containing Samsung 40T cells module, battery management system (BMS), & XT-90 connector)



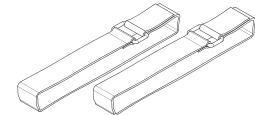
- Magnetic Battery Mount



- Ø48mm magnet with spring lock washer x 2pcs



- Battery charger



- Mounting straps x 2pcs

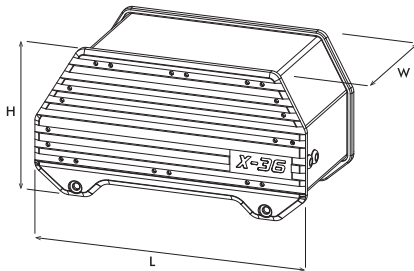
All parts listed are included in the package with every purchase. Should any part be missing, kindly contact support@cycmotor.com along with your order number as reference.

Thank you.



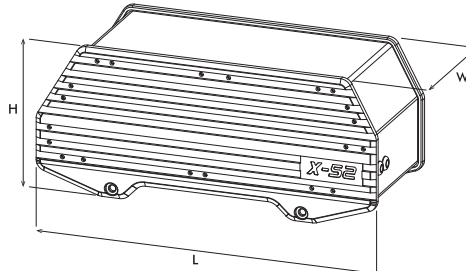
Dimensions

X-36



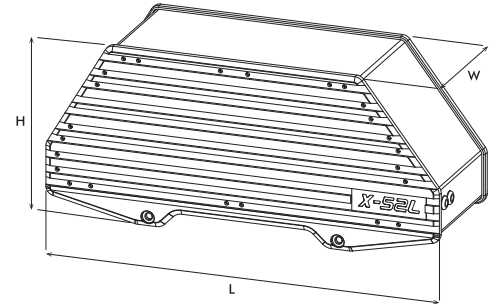
- 218mm (L) X 107mm (W) X 119mm (H)

X-52



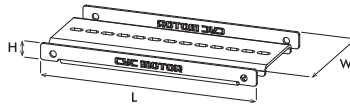
- 274mm (L) X 107mm (W) X 119mm (H)

X-52L



- 320mm (L) X 107mm (W) X 138mm (H)

Magnetic Battery Mount



- 173mm (L) X 92mm (W) X 15mm (H)

Ø48 Magnet (2pcs)



- Ø48mm X 9.6mm (H)
- M5 Hole

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Required Tools

3mm Allen Key

Operating Notice

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

Alternative Mounting Method

The battery pack can be mounted directly to the bike's frame without the use of the Ø48 neodymium magnets.

Step 1: Fasten the mount directly to the bike's cage mount screw holes. Do not assemble the battery pack to the mount yet.

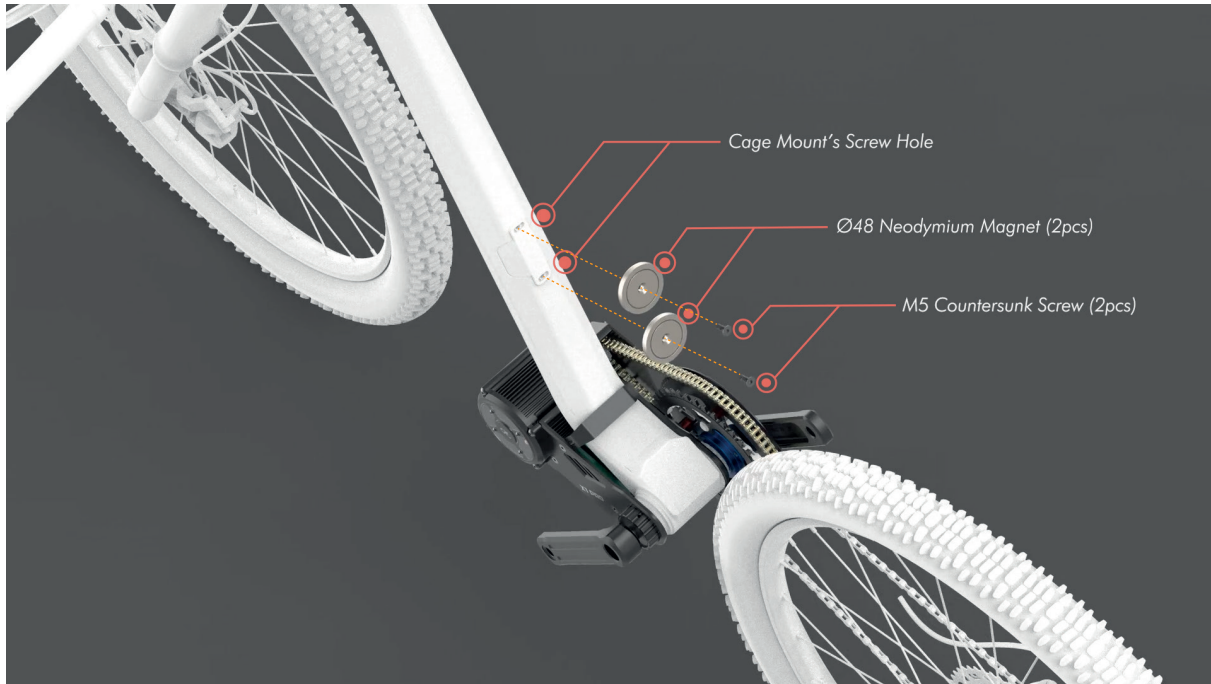
Step 2: Secure the battery pack to the mount using the M5 screws and wing nuts as shown below



Step 3: Ensure that all screws are fastened and use the straps provided if needed for extra security.



Magnetic Battery Mount & Battery Pack

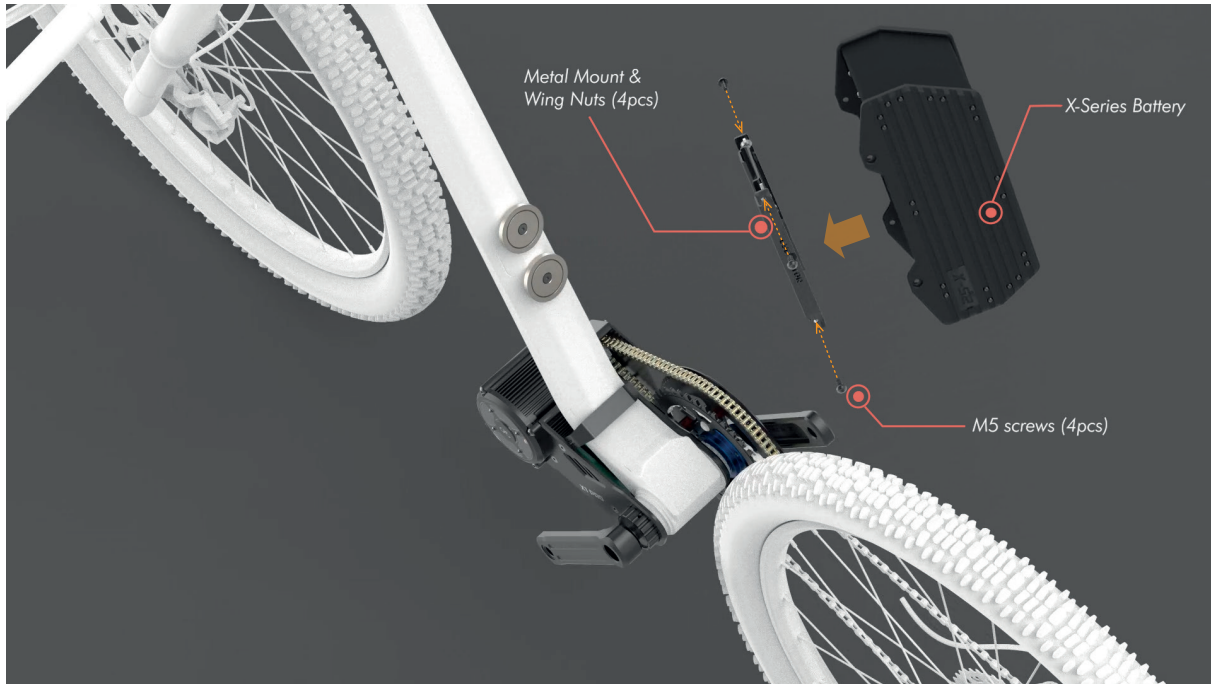


Step 1

- Use M5 screws to mount the Ø48 neodymium magnets to the cage mount's screw holes with a spring-lock washer inbetween.



Magnetic Battery Mount & Battery Pack



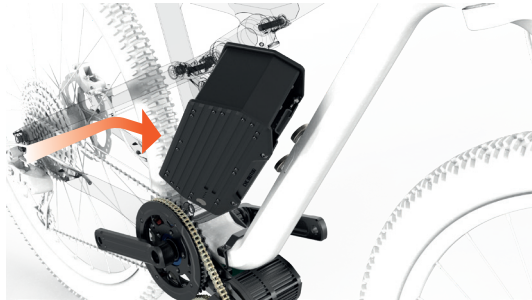
Step 2

- Use M5 screws & wing nuts to combine the X-Series Battery with the metal mount

03 INSTALLATION



Magnetic Battery Mount & Battery Pack



- Slide the battery in from either side & with side rotation motion to the magnet on the bike to hold in position.

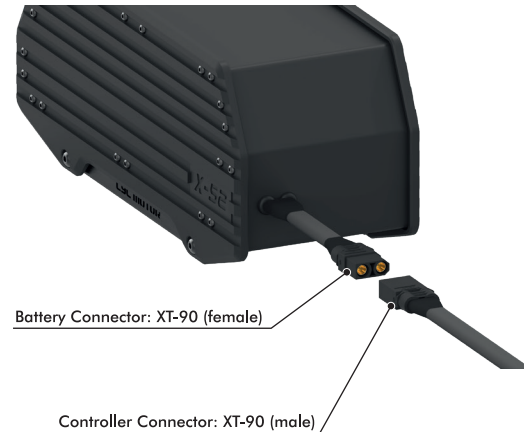


- Adjust position as needed.
(Straps can also be used for extra security)

Wiring & Connection

Battery Connector: XT-90 (female)

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



Note that the XT-90 connector is also used to charge the battery pack. The battery pack must be disconnected from the controller in order to charge.



Charging instructions

- Plug the charger into the wall socket.
- Connect the battery to the charger at the XT-90 connector side.
- Leave until fully charged (approx. 4 hours from empty).
- Unplug after fully charged for safety.

Charger Type: 58V 2A XT-90

Charge Time: 4 hours until fully charged

Charge Cycles: 800+

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.

Warning

- 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

- Place the battery pack in a cool and dry environment if you do not use it for a long time; charge for 4 hours every month.
- 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 heating, fire, or sun exposure.
- Do not place the battery pack in water, acid, alkaline or salty liquids, avoid the rain.
- Do not open the battery without special instruction.
- Do not invert the battery pack.





Warranty

CYC Motor Ltd offers a 1-year warranty for the battery, mount and charger. Man-made failure and other parts are excluded from our warranty.

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

Contact Information

email to: support@cycmotor.com

For customer support, including

- shipping;
- quotes, and
- sales

email to: technical_support@cycmotor.com

For technical support, including

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

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Hong Kong Time

NOTES





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