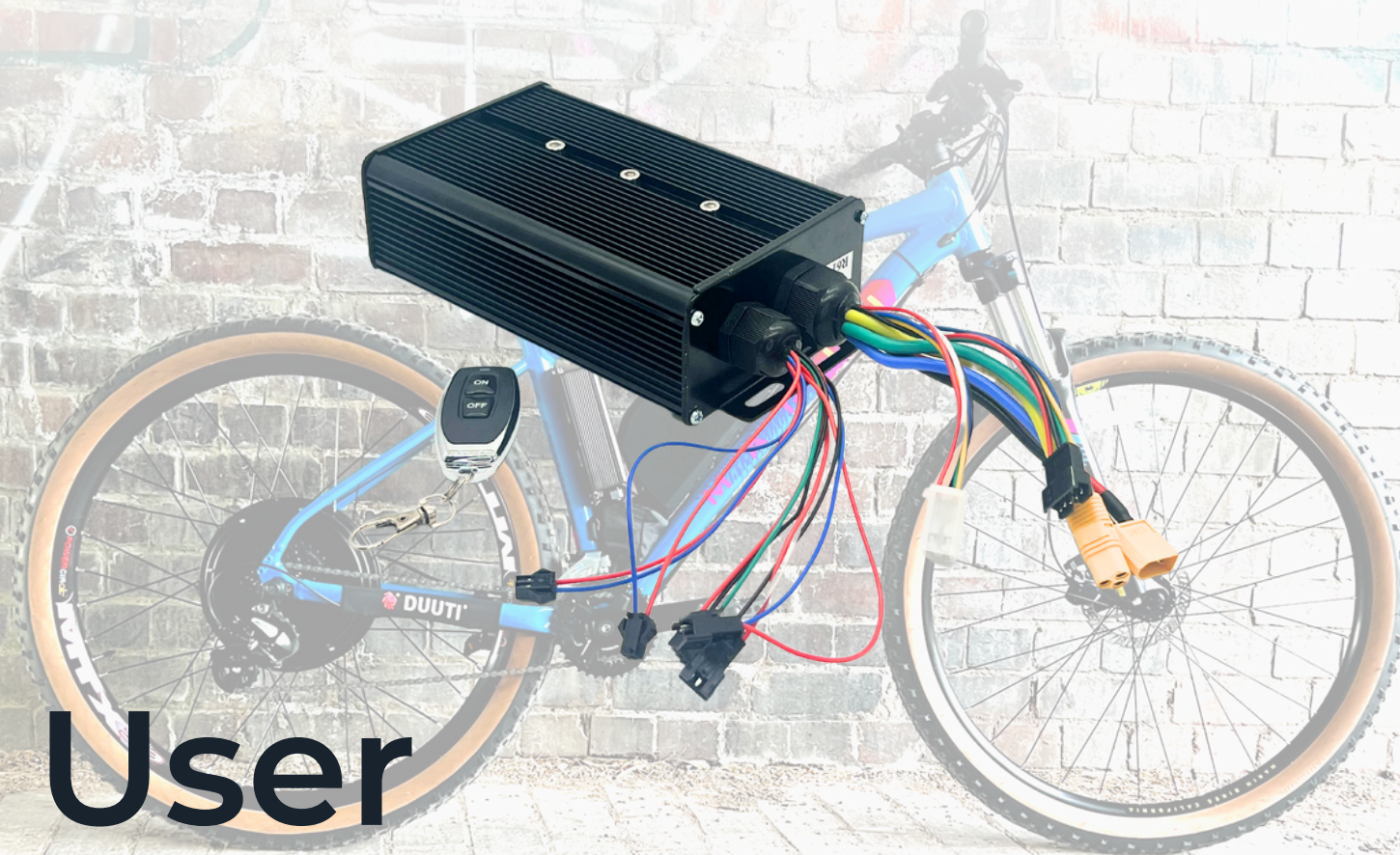


Revision 2, November 2024



E Bike Power UK®

45A DC MOTO Controller



User HANDBOOK

E Bike Power UK LTD

www.ebikepoweruk.com

info@ebikepoweruk.com

01 SAFETY & WARNINGS



Safety Approval

- All our product are EN. ROHS & UN238.8 approved and tested.
- All our motor kits and accessories are full certified to EN standards
- To ensure the highest quality & safety

Warnings

- Please abide by your local E-Bike Laws.
- Not subtitle for children under the age of 14
- Always wear the correct safety equipment, for example helmet, High visibility vest, belt, jacket or bright clothing. Grooves, Suitable footwear. kevlar pants, jacket coat.
- Use lights to help with visibility and others to see you.
- Some of our kits are for off road use only.
- Have respect for others around you.
- Maintain regular checks to your bike to ensure all components are functioning correctly & safely. If you have any doubts please consult a professional.
- Suitable for 48V 52V 60V 72V
- If your running 60V or 72V we recommend not to use a controller bag as the controller will become very hot.
- Keep the phase cable away from any other cables as these can get hot.

Disclaimer

- E Bike Power UK LTD do not take any liability to any damage caused to you, others or your bicycle.

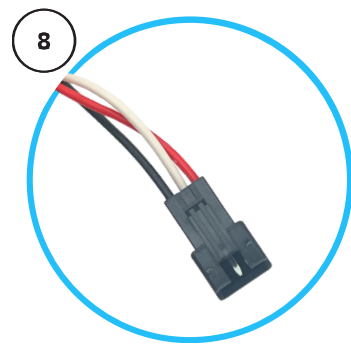
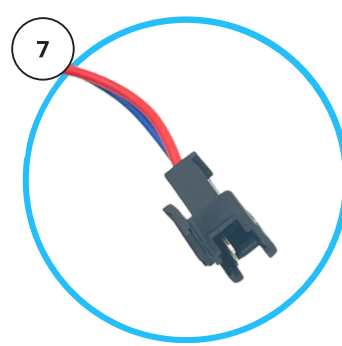
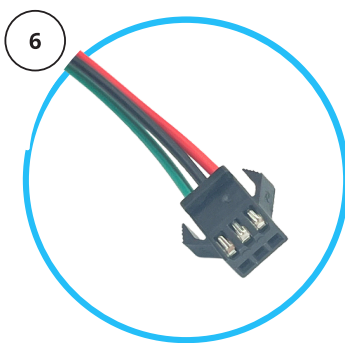
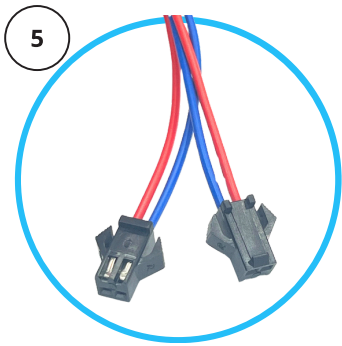
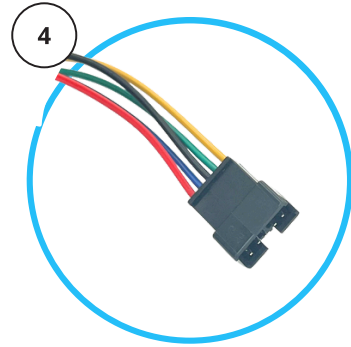
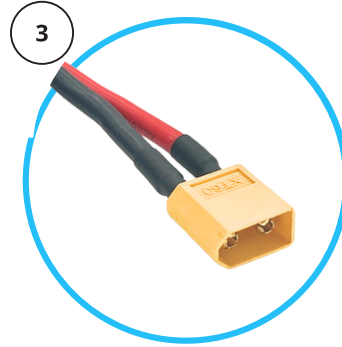
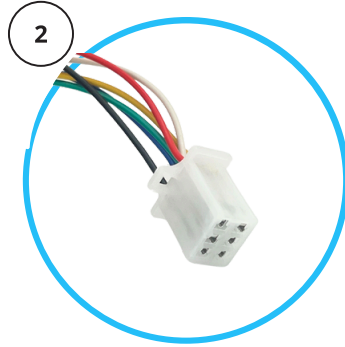
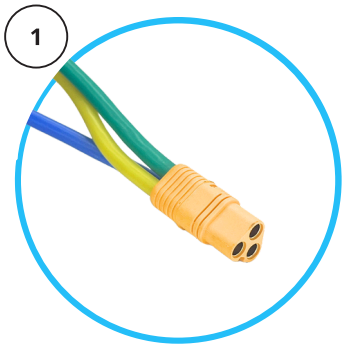


02 FUNCTIONS



What is Sine Wave?

- 100% Sine Wave Technology.
- A pure sine wave inverter is an electronic device that converts direct current (DC) to alternating current (AC). A sine wave is a continuous wave that describes a smooth repetitive oscillation. Conventional AC power is produced by rotating machines and is mathematically described as a sine wave
- More efficient.
- Smoother power delivery & throttle response.
- Runs cooler.



1. Motor Phase (MT60 Male)
2. Motor Hall (6 Pin Male)
3. XT60 Battery Positive Negative (Female)
4. Display (5 Pin JST SM Female)
5. Brake Sensor/Levers Cut off, (2 Pin JST SM Male)
6. Throttle (3 Pin JST SM Male)
7. Headlight (2 Pin JST SM Female) Power Battery Voltage. If you have a 48V battery your light needs to handle 48V. To activate the headlight you need to press & Hold the + UP Button on your displays function panel. The same process to turn the light off, You will see a light icon on your display when the light is active.
8. Pedal Assist Sensor (3 Pin JST SM Female)

03 LIMITER



Remote Key Fob

- We supply one Key with each controller.
- This key is unique to your controller.
- If you lose the remote key fob you will need a new controller, if you wish to continue to use this feature. The controller will still function in full power mode.
- The remote key is designed to Limit the speed to your desired speed. If this is purchased in conjunction with one of our kits the speed limit is set as 25KPH.
- When the speed limit function is activated via the remote key. This will disable your throttle & the motor will only propel you to your desired speed limit setting (EG, 15.5MPH-25KPH) or the speed setting set my us.
- Paired with a UKCI, You will need to enter the speed limit setting to adjust the speed if needed.
- Paired with any SW900 display, P08 is the speed limit setting. 1-100 KPH Set at 25 for 15.5 MPH.
- Disable the throttle
- Limit the power to the equivalent 250W 48V motor

A=ON

This will active the speed limit function

The LED will flash red when any button is pressed



B=OFF

This will deactivate the speed limit function

WARNING!

DO NOT HANG THE FROM YOUR BIKE
TO AVOID ANY LOSS WHEN RIDING

04 OVERVIEW



Features & Help

- The Power levels are set in increments both pedal assist and throttle. For example. Power modes 1-5, Level 1 will be the slowest on throttle & pedal assist. Level 2 This will increase the power slightly.
- This a gradient power 1, 20%. 2. 35% 3. 55%. 4. 80%. 5. 100%
- 18 Mosfet
- DC Voltage of 48V to 72V
- Amp Current of 45A
- Sine wave.
- Dual Mode
- Dual Mode, The controller will work without the hall sensor connected or if you have a faulty hall sensor. This will them be square wave mode. Square wave mode is louder & your motor will not run as smooth as Sine Wave.
- We would recommend replacing your hall sensor if this is the case. Also check your motor cable for any damage. Check your hall connection to ensure the hall is making a true connection to your controller.
- Ensure you have the motor phase cable orientation correct, BLUE-BLUE, YELLOW-YELLOW. GREEN-GREEN.
- If the key fob stops working please replace the battery.
- If your controller becomes to hot to touch, we recommend to stop riding & let the controller cool down.
- If your headlight doesn't work via the display, This may be due to your display not supporting this function

Help & Contact

- We truly hope this manual helps, If you feel we need to add any additional information please contact us via email at info@ebikepoweruk.com
- Thank you & ride safe.

