

RIDE CONTROL APP USER GUIDE

This mobile app is compatible with the CYC
X-Series Controllers

EN | ORIGINAL OPERATING INSTRUCTIONS

CYC MOTOR LTD

✉ support@cycmotor.com

☎ +852 3690 8938

Version 1.1 | 25/08/2023 EN



CYC Ride Control Features	3
Connecting a Device	4
Dashboard	5
Main Settings	6
General	7
Modes & Levels (Gen 3)	8
Modes & Levels (Photon)	9
Unrestricted Mode (Photon)	10
Selecting Power Presets (Photon)	11
Throttle	12
Pedal Assist	13
Peripherals Setup	14
Battery	15
Firmware Update	16
Battery Information	17
Default Settings Information (Photon)	18
Privacy Policy	19

The CYC Ride Control app is the official mobile app paired with the CYC Gen 3 technology. Use it as a secondary dashboard, settings set-up, or both. Unleash all the possibilities of ebike customization at your fingertips.

With advanced features, you can adjust your performance sensitivity, power, torque, and peripherals.

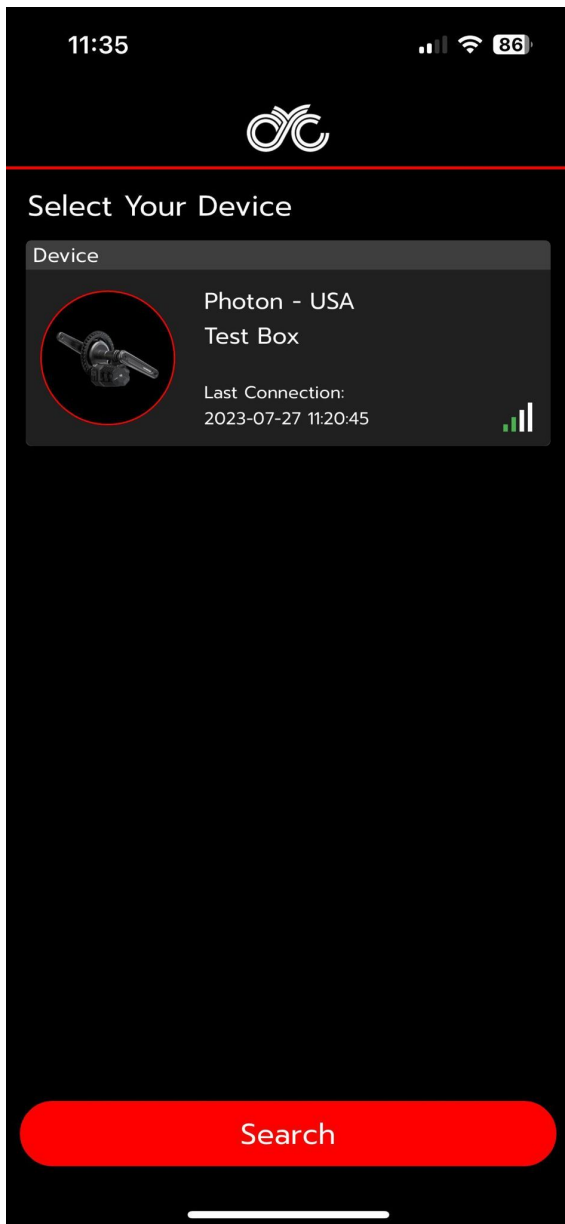
Pair the mobile app with any X-Series controller. When connected via Bluetooth, your ebike experience is now integrated more than ever.

This platform is your go-to station for your CYC kit and X-Series controller.



FEATURES

- Bluetooth connectivity
- Torque sensor configuration
- Compatible with CYC X-Series Controllers
- Real-time dashboard for all your motor and riding information
- Fully customizable parameters for pedal assist, throttle, and gear preferences



Step #1

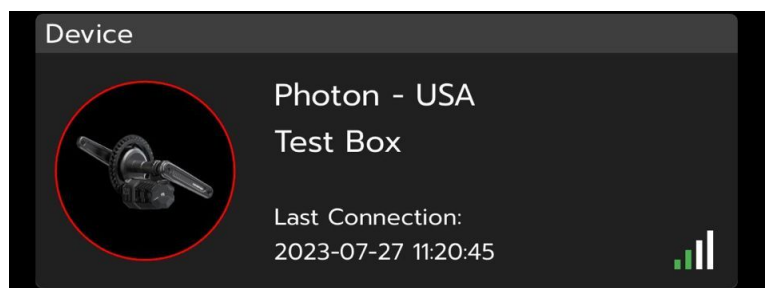
Open the app and tap the Search button at the bottom of the screen. Kindly ensure your phone's Bluetooth is enabled. Keep your device close to the motor while connecting.

Step #2

Available devices will then be listed, select your kit and it will begin connecting to the controller.

Step #3

Once connected, the Bluetooth icon will change stating you are connected. You can select it again to disconnect.

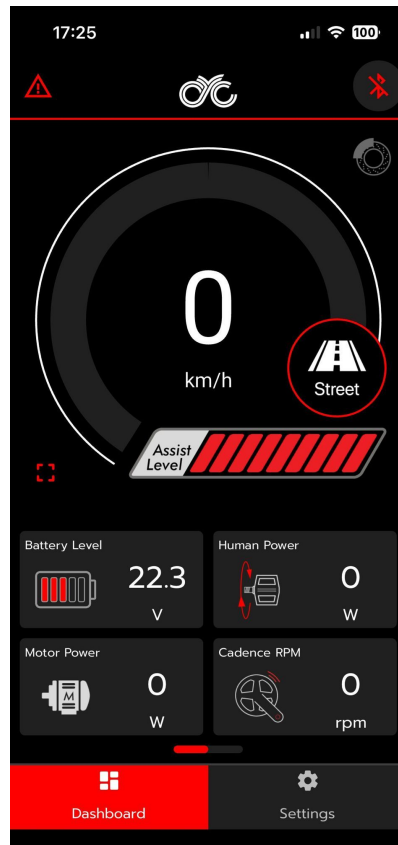




Warning icon to check error codes and clear faults



Bluetooth icon to disconnect your device

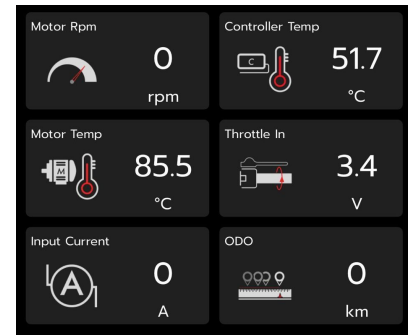


Instantly change between **STREET** and **RACE** mode

LANDSCAPE MODE

Change between your **DASHBOARD** and **SETTINGS**

Real-time Data



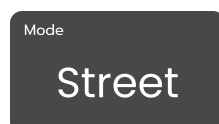
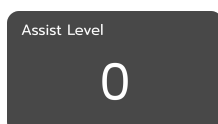
*Swipe for more information



LANDSCAPE MODE



Go back to Portrait mode



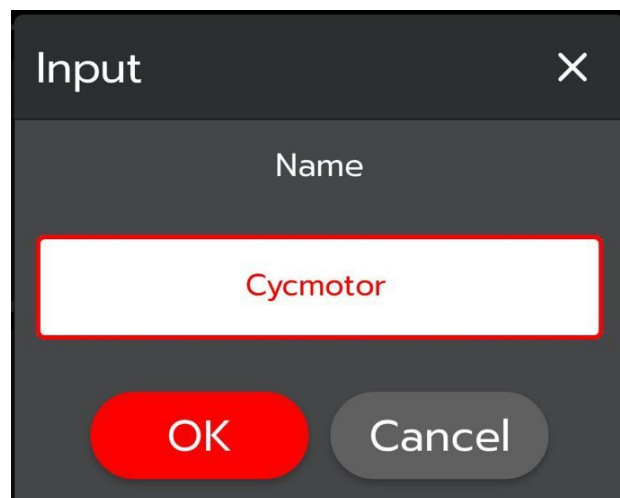
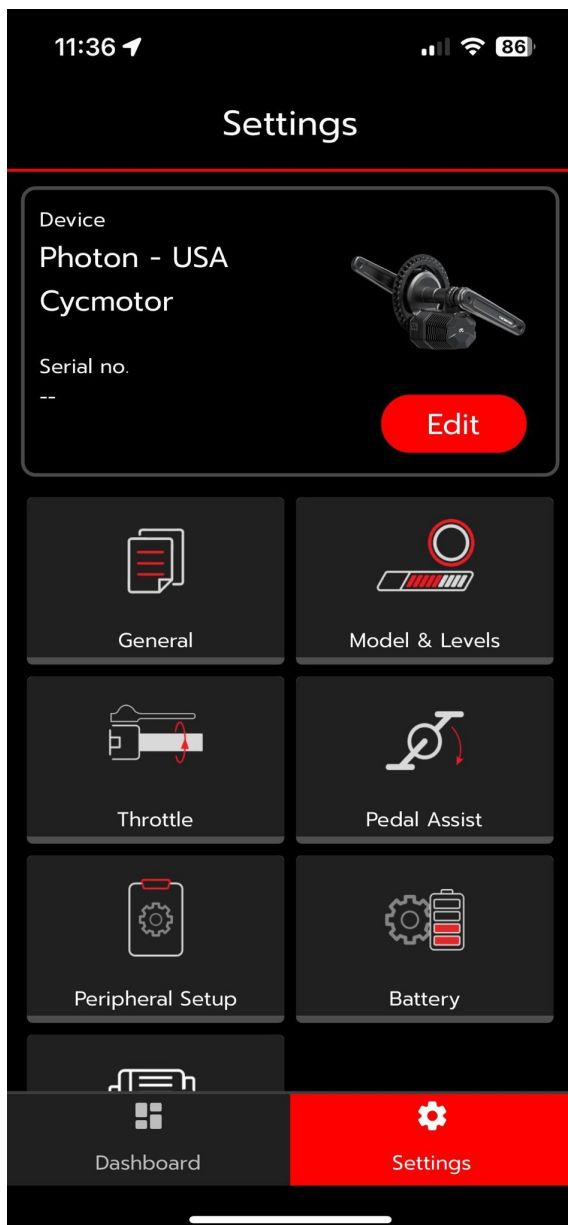
You can still change your mode in landscape mode.

The settings page allows you to navigate through different parameter categories. There are seven different categories with each providing a set of adjustable parameters or readings from your ebike system.

IMPORTANT

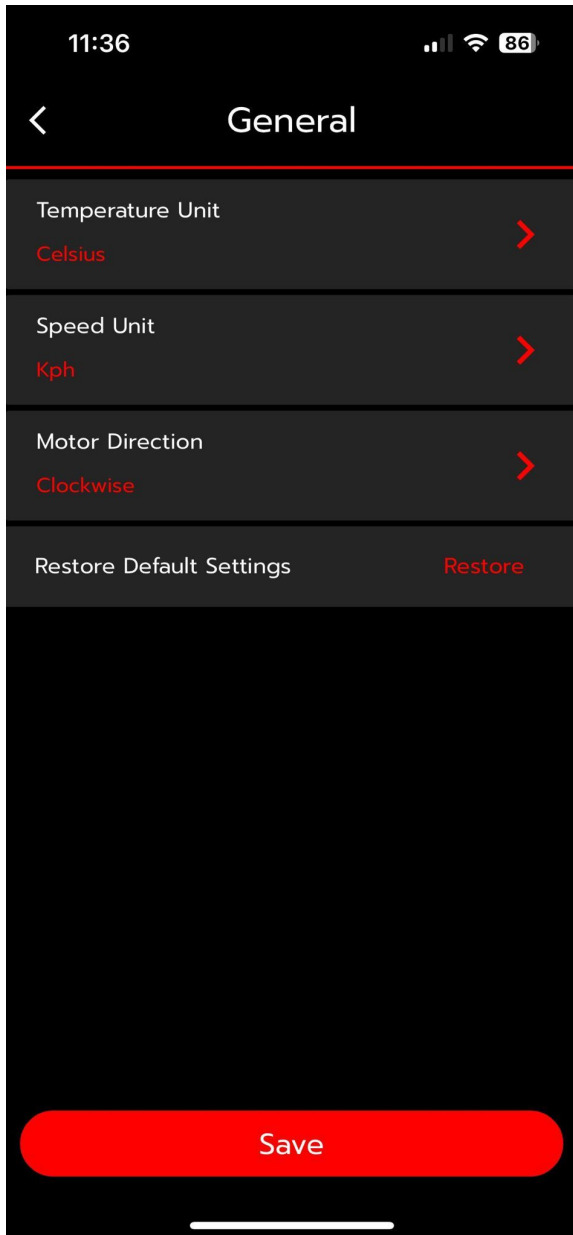
Save all new changes or risk losing progress after a restart.

To save, tap the 'Save' button in the upper righthand corner. 'Save completed.' message will appear upon completion.



Customise Device Name

Easily identify your kit by renaming your bike. Your bike's custom name is specific to you. This means that if another person connects to your bike, it will not show the customized name you've set.



Temperature Unit

Set your units to display in degree Celsius (°C) or Fahrenheit (°F)

Speed Unit

Set the speed unit to miles or kilometres

Motor Direction

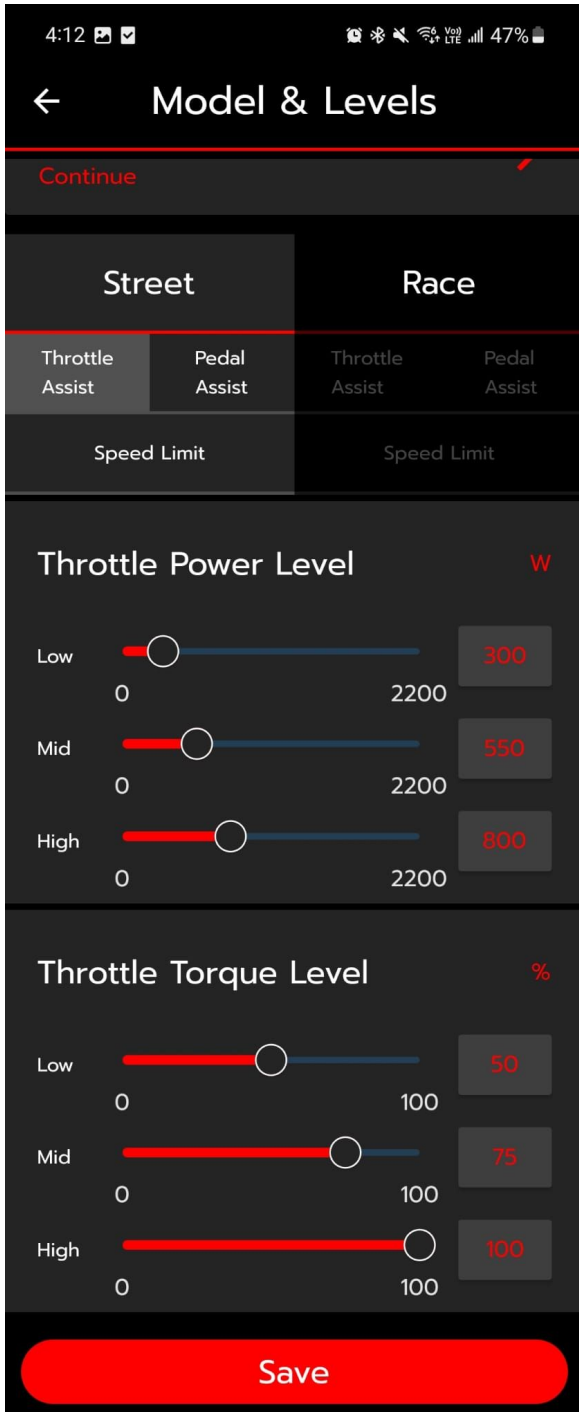
This setting is for users who'd want to switch the direction that the motor is turning. Please note that this is reserved for specific uses only.

WARNING: Do not change this setting without consulting with CYC or authorized distributors as it changes the motor direction from its default position.

Restore Default Settings

Restore to factory/default settings.

GEN 3



Race & Street Mode

You can set the throttle and PAS output independently for both modes.

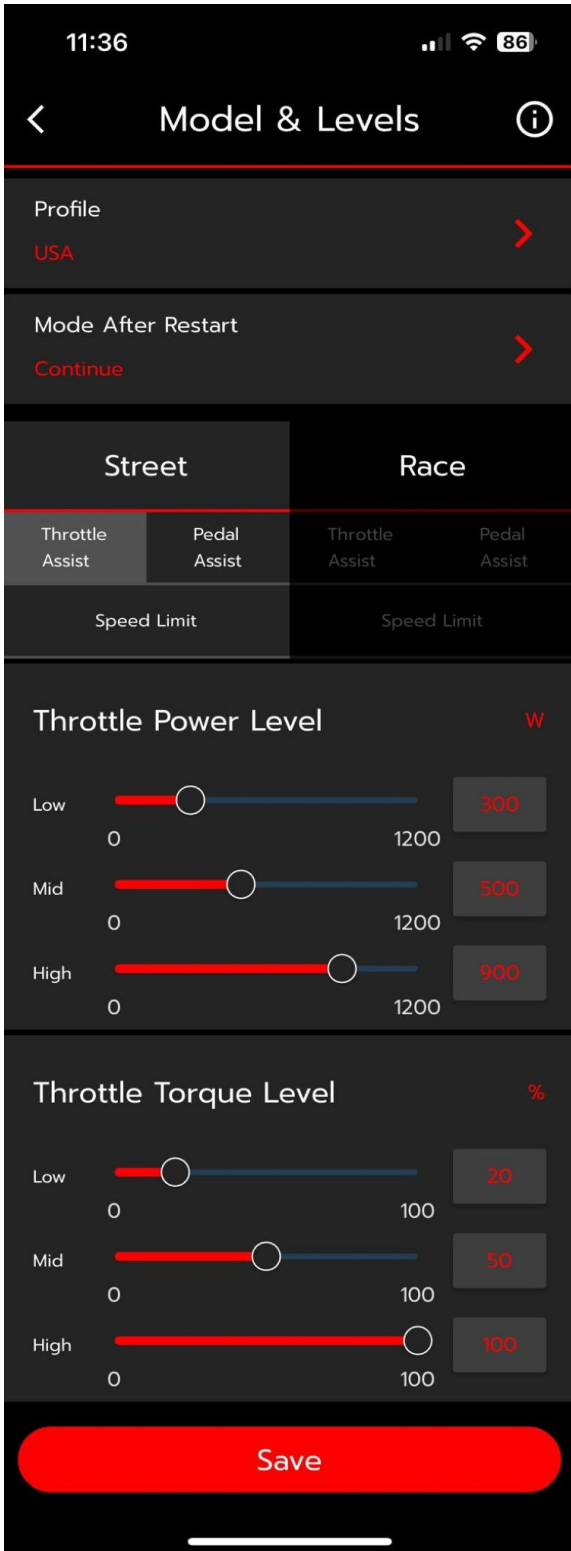
Race Mode Throttle & PAS

Race Mode is your “boost” or “full power” mode and has parameters set for reaching closer to the system’s full capabilities. You can adjust these to your own preference within the capabilities of your controller and battery.

Street Mode Throttle & PAS

Street Mode is intended to be set to your region’s legal limits. You can adjust these to your own preference or to your region’s legal limits.

Photon



Motor Type (X1 Stealth & Pro)

You can select the CYC motor kit you have.

Profile (Photon)

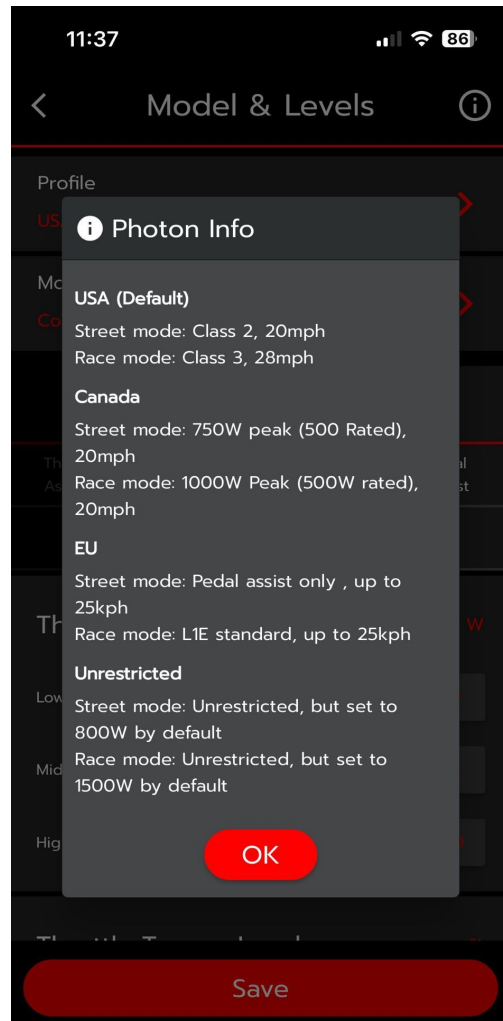
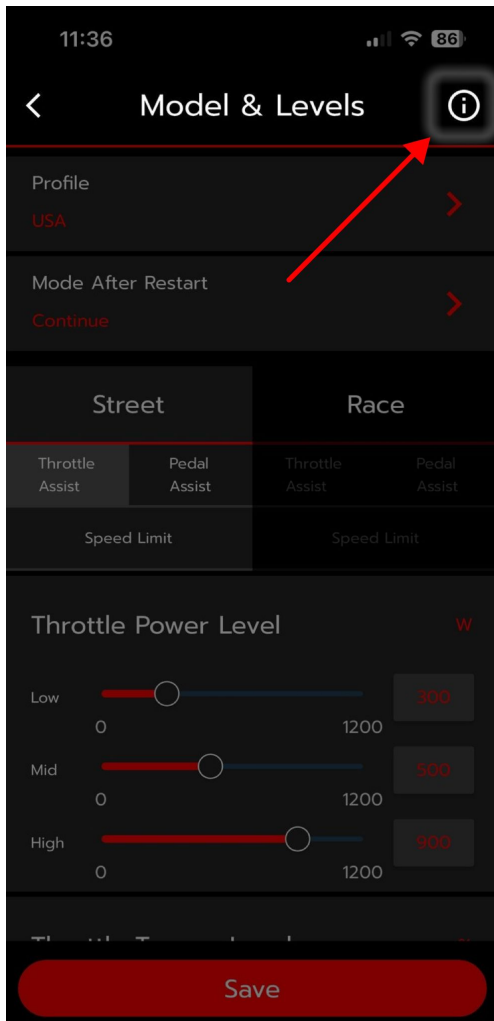
You can select different region's legal limits default settings.

Mode After Restart

You can select in which mode your kit will be in when you switch it on. Select it to continue in the mode you left off or select Race or Street mode.



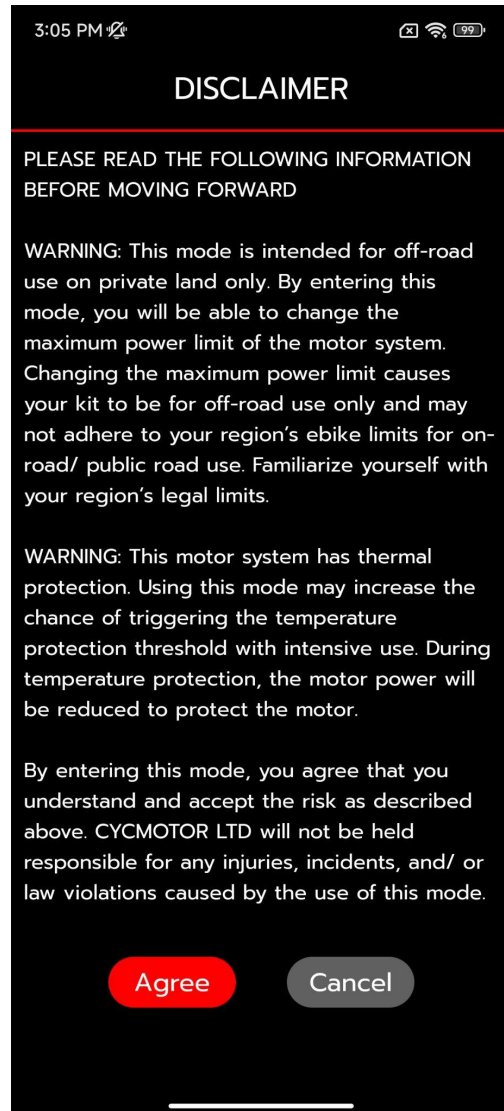
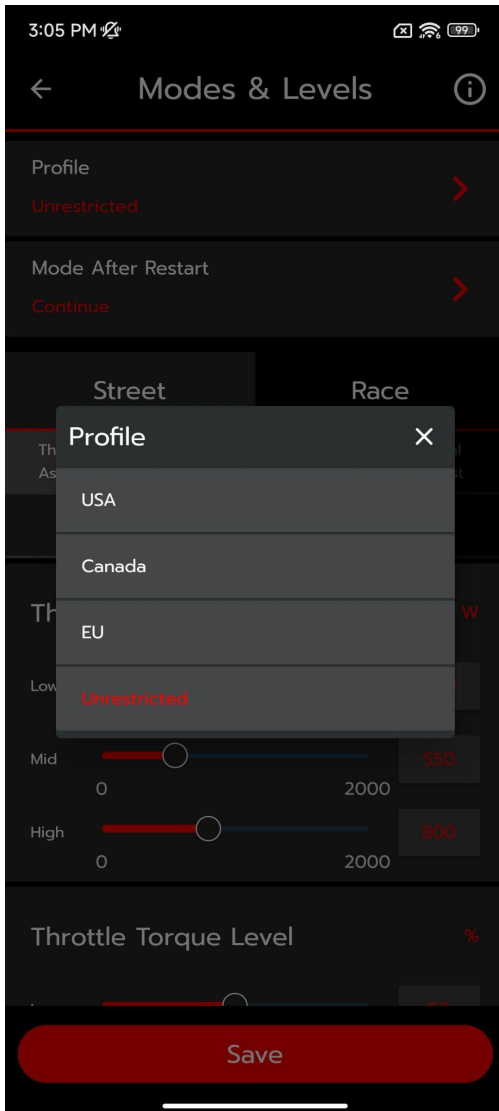
Photon



For Photon kits, you can choose between different presets based on your region. You can find this under *Modes & Levels*, by selecting *Profile*.

Then save your settings to avoid losing progress.

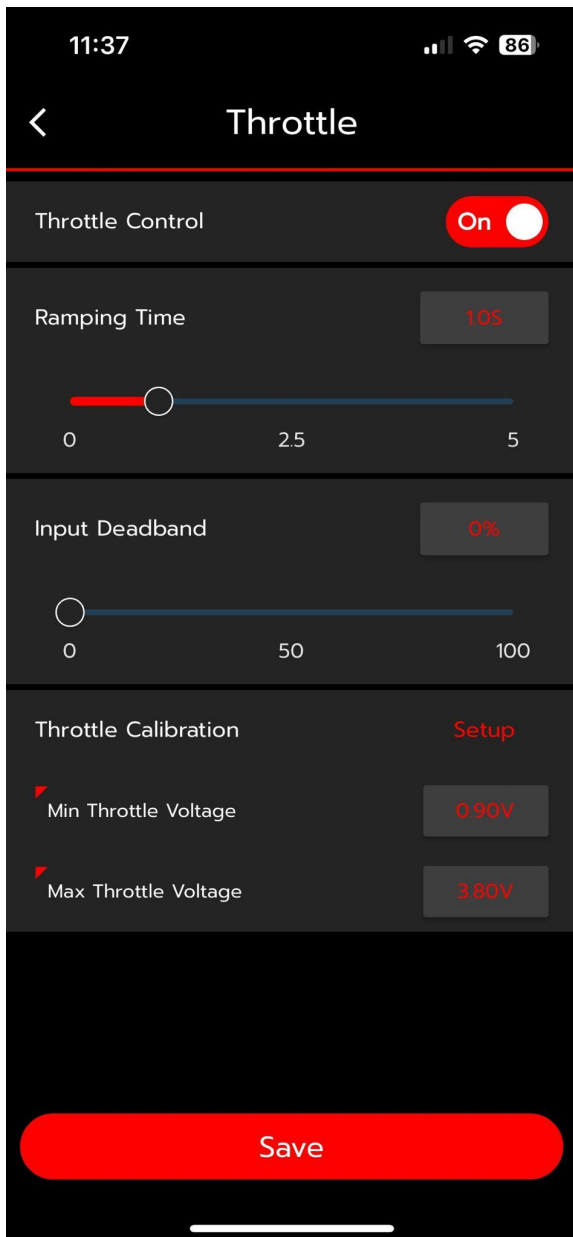
Photon



To access *Unrestricted Mode*, select *Profile* under *Modes & Levels*, then select *Unrestricted*.

You will need to read the disclaimer before agreeing to use this mode. Save your settings to avoid losing progress.

WARNING: Entering UNRESTRICTED mode causes your kit to be for off-road use only and may not adhere to your region's ebike limits for on-road/public road use. We recommend you to familiarize yourself with your region's legal limits.



Ramping Time

This is the time it takes for the motor to achieve the required input. For example, if you open the throttle fully, it will take 250ms (by default) before the motor gives you full power. It will gradually ramp up to full power within the set time. We recommend not setting this below 150ms.

Input Deadband

This value pertains to opening the throttle when it's completely closed. This is the amount of throttle can be moved from the zero position without generating a response from the motor. If this value is set lower, your throttle will engage quicker and vice versa.

Throttle Calibration

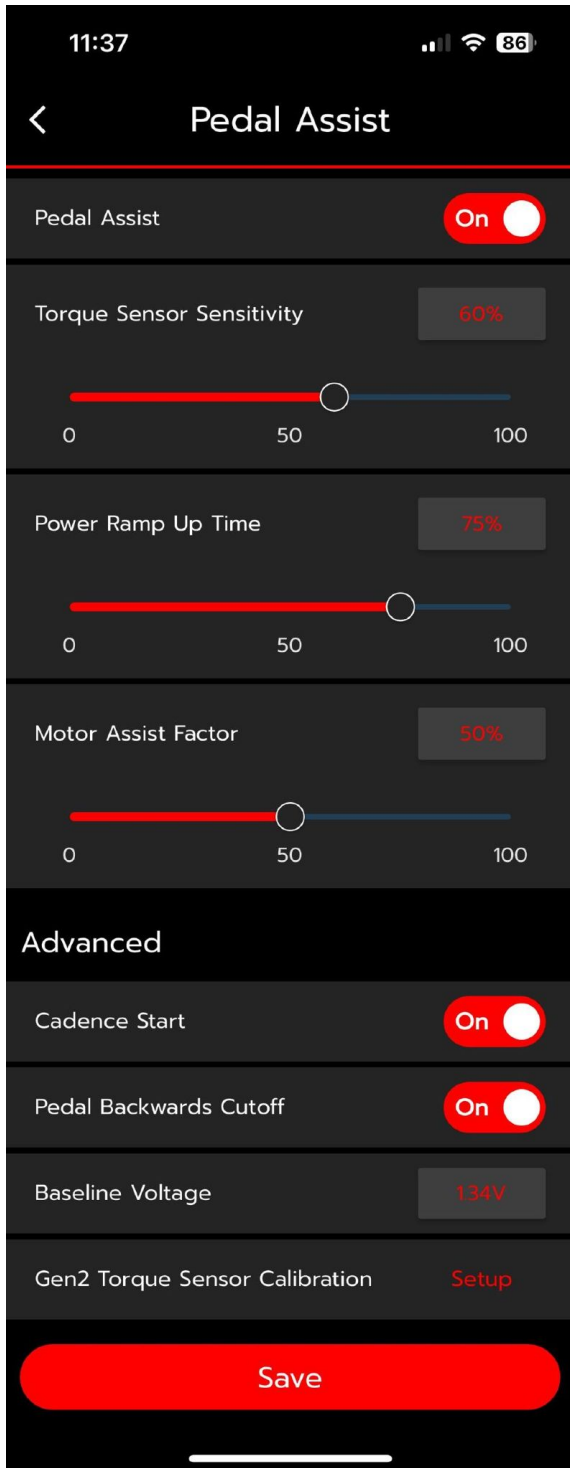
For using your own throttle, this will automatically setup the min and max voltage accordingly. Follow the steps prompted on the screen to set up.

Max Voltage

This value should be the same as the Throttle Voltage Reading when the throttle is closed and sets the output when it is not active.

Min Voltage

This is the output of the throttle when opened fully and is pre-set when purchased. This does not need any change with CYC supplied throttles.



Pedal Assist Sensor

Enable or disable pedal assist.

Torque Sensor Sensitivity

This value pertains to activating pedal assist when it's completely off. This is the amount of pedal force required to activate the pedal assist. If this value is set higher, your pedal assist will engage with less force and vice versa.

Power Ramp Up Time

The amount of time it takes to reach the desired input. This is the responsiveness of the motor.

Motor Assist Factor

This value pertains to how hard you need to pedal to get full power.

Cadence Start

This feature allows for a cadence-free pull away. i.e., only torque (40N.m.) is required to activate pedal assist.

Pedal Backwards Cutoff

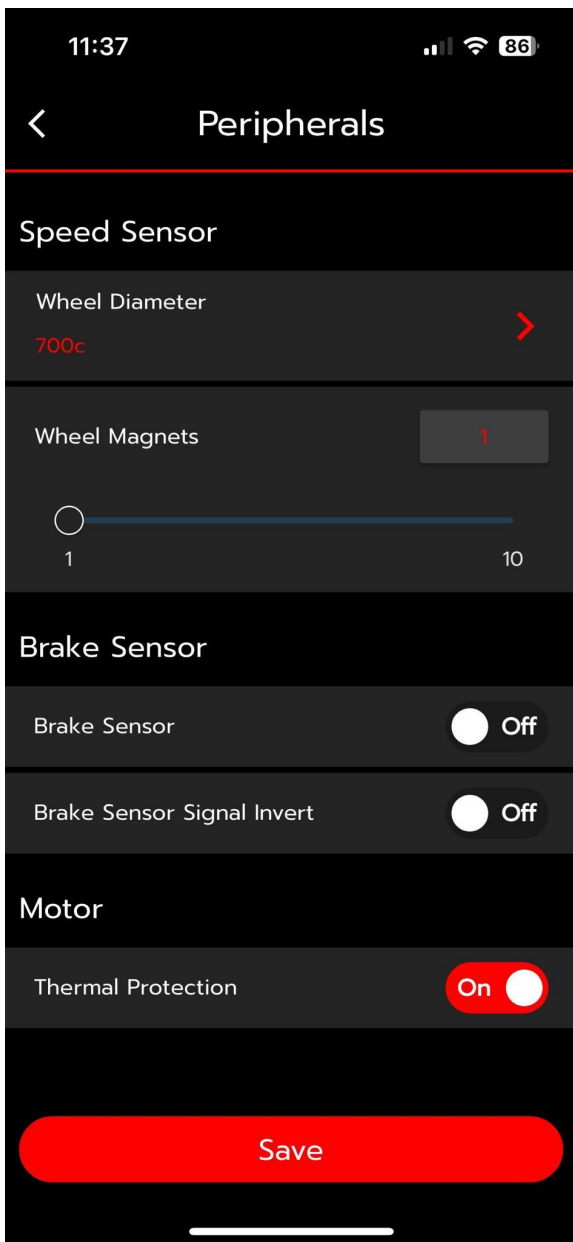
This feature allows you to cut motor power when you pedal backwards.

Baseline Voltage

The baseline voltage is for Gen 2 kits only. We advise not to change this setting or risk damage to your motor kit.

Gen 2 Torque Sensor Calibration

Configure your X1 Pro Gen 2 or X1 Stealth Gen 1 kit's torque sensor to improve performance of the X6 controller.



Wheel Diameter

The wheel diameter can be measured or be calculated. We advise that this number must be calibrated so that vehicle speed within the app matches display speed.

Wheel Magnet

This is the number of magnets in the wheel that is communicating with the speed sensor. For more accurate vehicle speed limiting and measurement, we advise to add more magnets to the wheel.

Brake Sensor

Enable/Disable brake sensors.

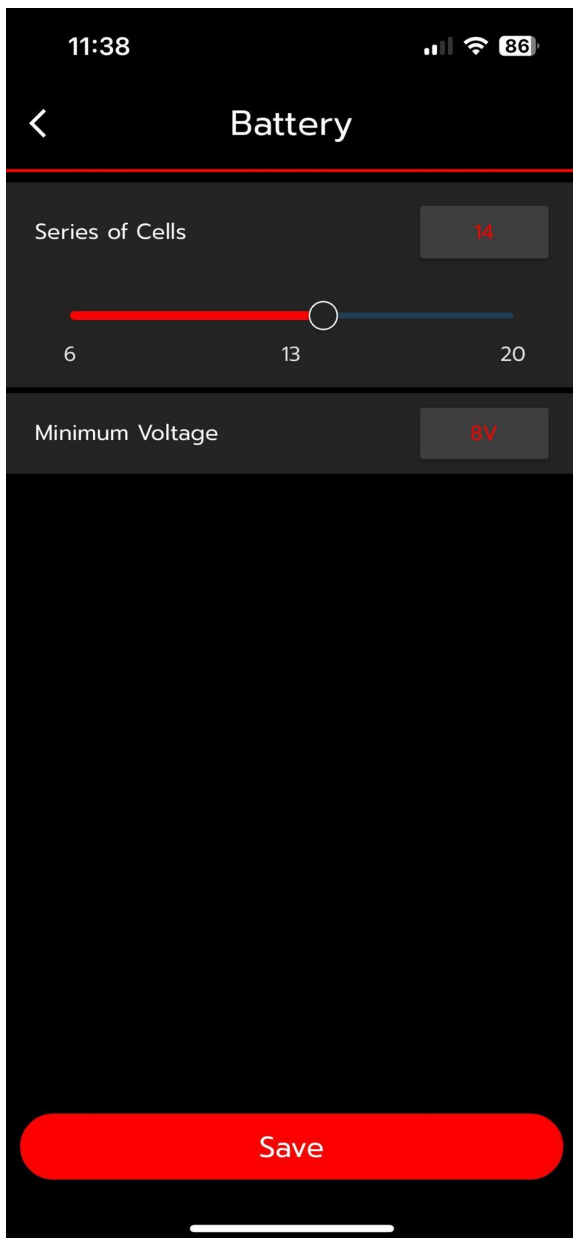
Invert Brake Sensor Signal

If you are using brake sensors from a different supplier, you can use this feature to set up your brake sensors as needed.

WARNING: Please contact your authorized distributor or CYC support if you're setting up third-party peripherals.

Thermal Protection (Password)

This is an advanced feature and requires a password from CYC to change. This allows you to disable your motor temperature sensor. Contact us for more details and password for this feature.

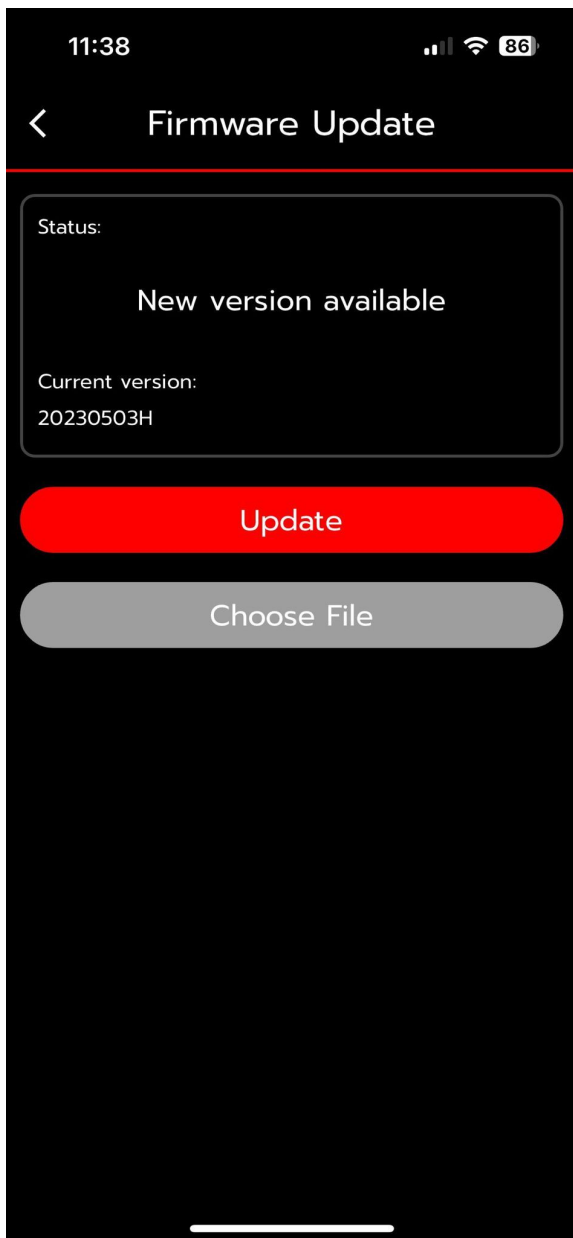


Series of Cells

10s = 36V, 14s=52V, 20s=72V

Minimum Voltage

The value the controller will fault when connecting too low a voltage to the system. This setting can be used to protect your battery if too much voltage sag is detected.



Firmware Update

To update firmware, go to *Firmware Update* and press *Update* for the app to automatically download the latest version of the kit controller.

To select a specific firmware version, press *Choose File* and update accordingly.

Please note that the Maximum Power Level MUST be changed in the CYC Ride Control App to match your battery's specifications. Follow the guidelines below:

Battery Voltage	BMS	Motor Power Limit
72V	50A	3600W
72V	40A	2800W
72V	30A	2000W
60V	50A	3000W
60V	40A	2400W
60V	30A	1800W
52V	50A	2500W
52V	40A	2000W
52V	30A	1500W
48V	50A	2400W
48V	40A	1900W
48V	30A	1400W
36V	40A	1400W
36V	30A	1000W
36V	20A	700W

*Failure to set power settings correctly through the CYC Ride Control App may cause damage to the battery and/or motor.



Photon

Peak Limit & Default Settings	USA	Canada	EU	Unrestricted
Street PAS	1200W Low 300W, 50% torque Mid 550W, 75% torque High 800W, 100% torque	1000W Low 300W, 50% torque Mid 550W, 75% torque High 750W, 100% torque	750W Low 300W, 50% torque Mid 550W, 75% torque High 750W, 100% torque	2000W Low 300W, 50% torque Mid 550W, 75% torque High 800W, 100% torque
Street Throttle	1200W Low 300W, 50% torque Mid 550W, 75% torque High 800W, 100% torque	1000W Low 300W, 50% torque Mid 550W, 75% torque High 750W, 100% torque	Disabled	2000W Low 300W, 50% torque Mid 550W, 75% torque High 800W, 100% torque
Street Speed Limit	32kph	32kph	25kph	100kph
Race PAS	1200W Low 500W, 50% torque Mid 850W, 75% torque High 1200W, 100% torque	1000W Low 300W, 50% torque Mid 750W, 75% torque High 1000W, 100% torque	1000W Low 300W, 50% torque Mid 750W, 75% torque High 1000W, 100% torque	2000W Low 500W, 50% torque Mid 1000W, 75% torque High 1500W, 100% torque
Race Throttle	1200W Low 300W, 50% torque Mid 850W, 75% torque High 1200W, 100% torque	1000W Low 300W, 50% torque Mid 750W, 75% torque High 1000W, 100% torque	1000W Low 300W, 50% torque Mid 750W, 75% torque High 1000W, 100% torque	2000W Low 500W, 50% torque Mid 1000W, 75% torque High 1500W, 100% torque
Race Speed Limit	45kph	32kph	25kph	100kph

Disclaimer

If you require any more information or have any questions about the app user guide disclaimer, please contact us via email at **technical_support@cycmotor.com**.

Privacy Policy

The service is provided by CYC MOTOR LTD at no cost and is intended for use. The text is used to inform visitors regarding our policies with the collection, use, and disclosure of personal information if anyone decided to use this service. If you choose to use this service, then you agree to the collection and use of information in relation to this policy. The personal information that we collect is used for providing and improving the service. We will not share your information with anyone else except as described in this Privacy Policy. The terms used in this Privacy Policy have the same meanings as in our Terms and Conditions, which is accessible at CYC MOTOR LTD unless otherwise defined in this Privacy Policy.

Information Collection and Use

For a better experience while using this service, we may require you to provide us with certain personally identifiable information, including but not limited to Name (Optional). The information that we request will be retained by us and used as described in this Privacy Policy.

Please visit www.cycmotor.com/privacy-policy for more detailed information.