
# CYC X-Series Ride Control App User Guide



Contents



## CYC X-Series Ride Control App


## OVERVIEW

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.

## FEATURES

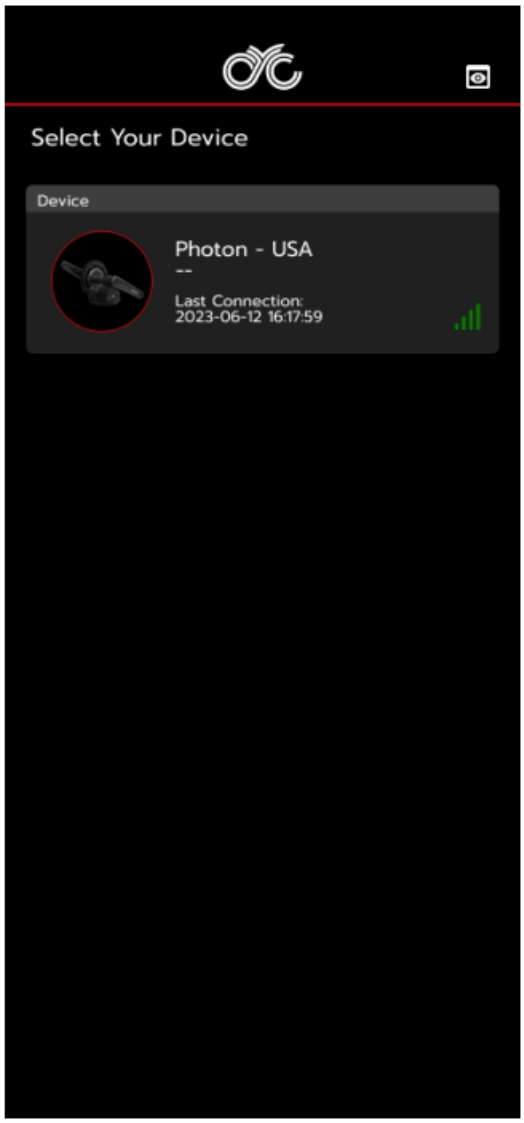
- Bluetooth connectivity
- Torque sensor configuration
- Compatible with CYC X-Series Controllers
- Real-time dashboard for all your motor and riding information
- Fully customizable parameters for pedal assist, throttle, and gear preferences
- This platform is your go-to station for your CYC kit and X-Series controller

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


## CONNECTING A DEVICE

### STEPS

1. Open the app and tap the Search button at the bottom of the screen. Kindly ensure your phone's Bluetooth is enabled. (Please keep close to the motor while connecting)
2. Available devices will then be listed, select your kit and it will begin connecting to the controller. (Please note signal strength)
3. Once connected, the CONNECT icon will change stating you are connected & can select again to disconnect.


Select Your Device
Device
Photon - USA
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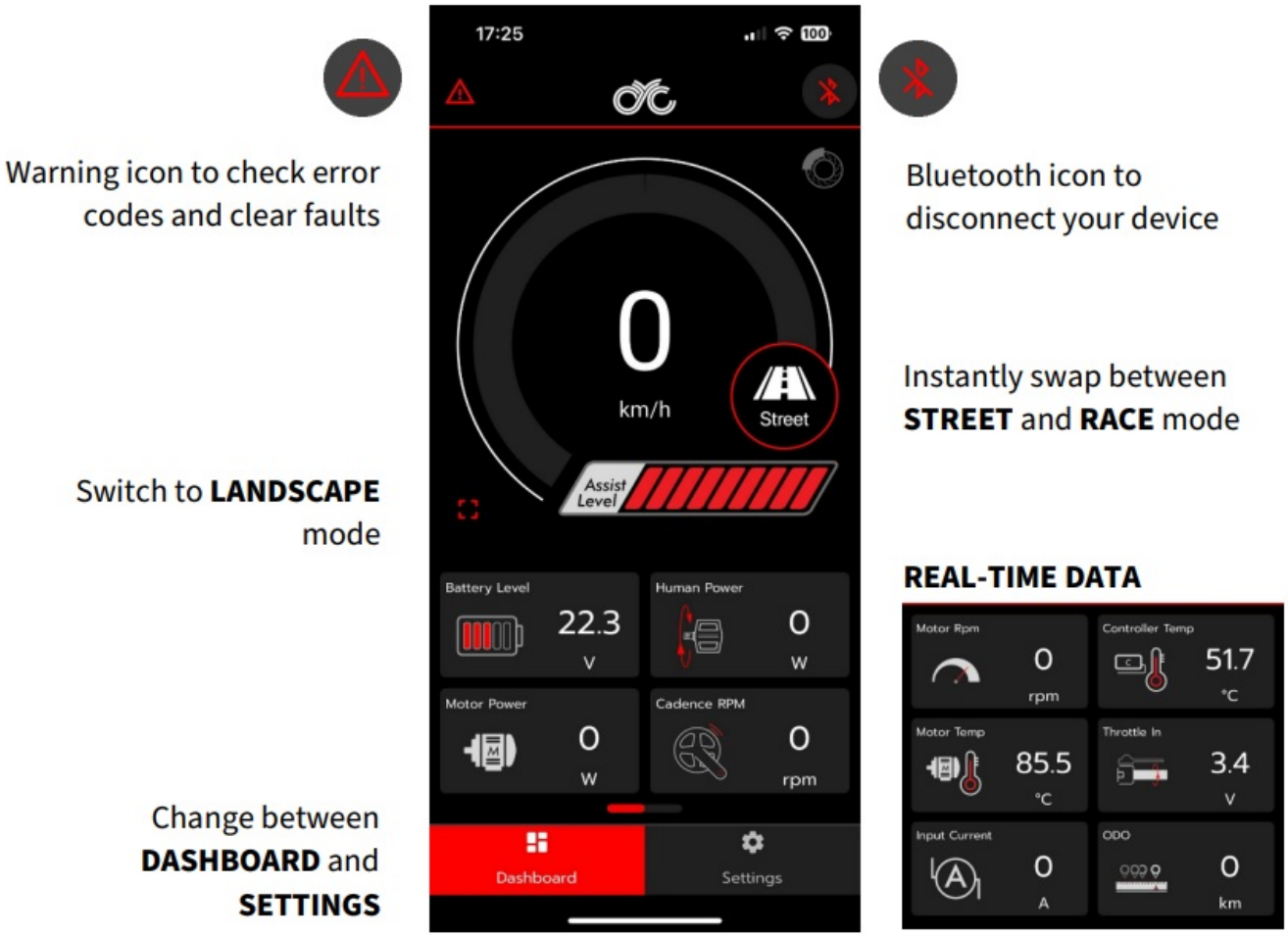
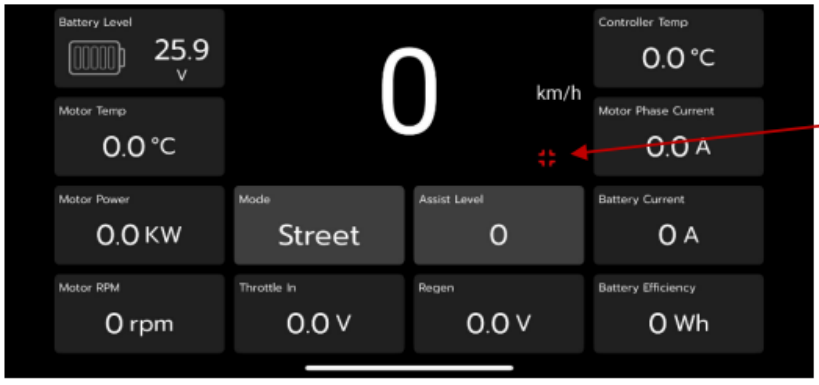
Last Connection:
2023-06-12 16:17:59

**DASHBOARD**




## LANDSCAPE MODE

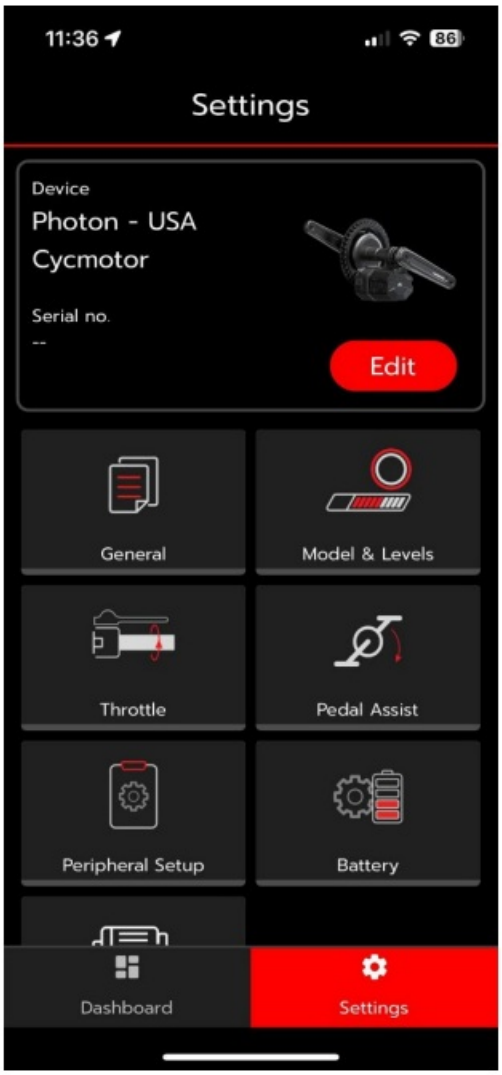



Switch back to **PORTRAIT** mode

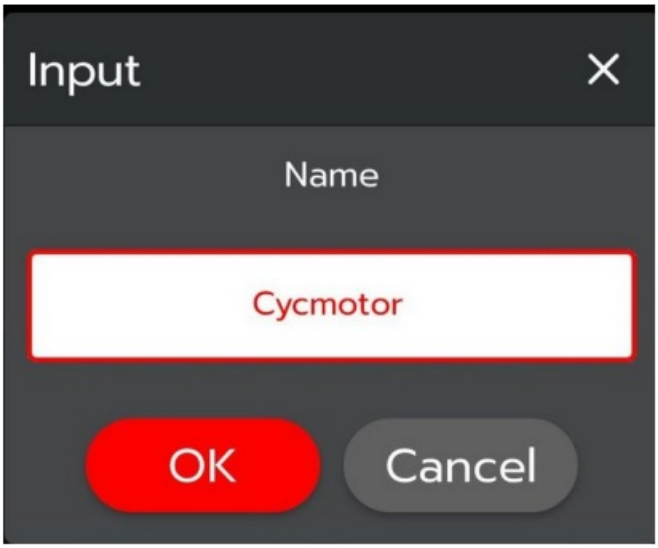

You can still change your mode in **LANDSCAPE MODE**

## MAIN SETTINGS

The settings page allows you to navigate through different parameters. There are seven different categories each providing adjustable settings 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 right-hand corner. The ‘Save completed.’ The message will appear after saving successfully.



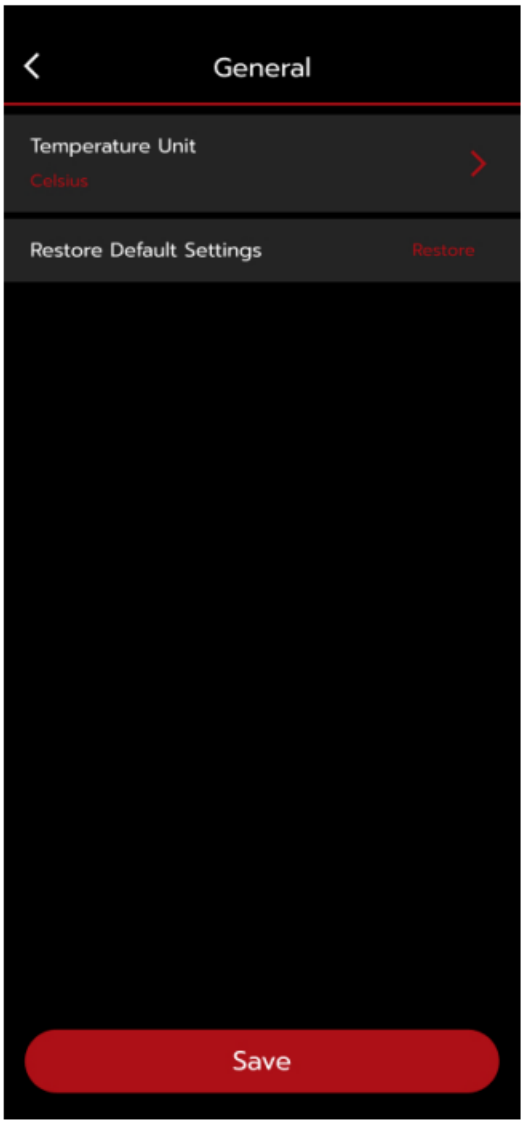

**CUSTOMISE DEVICE NAME**
Easily identify your kit by renaming your bike. Your bike's custom name is specific to you. This means that if another person connects to your bike, it will not show the customized name you've set.




**GENERAL**

**Temperature Unit**
Set your units to display in degrees Celsius (°C) or Fahrenheit (°F).

**Speed Unit**
Set the speed unit to miles or kilometers.



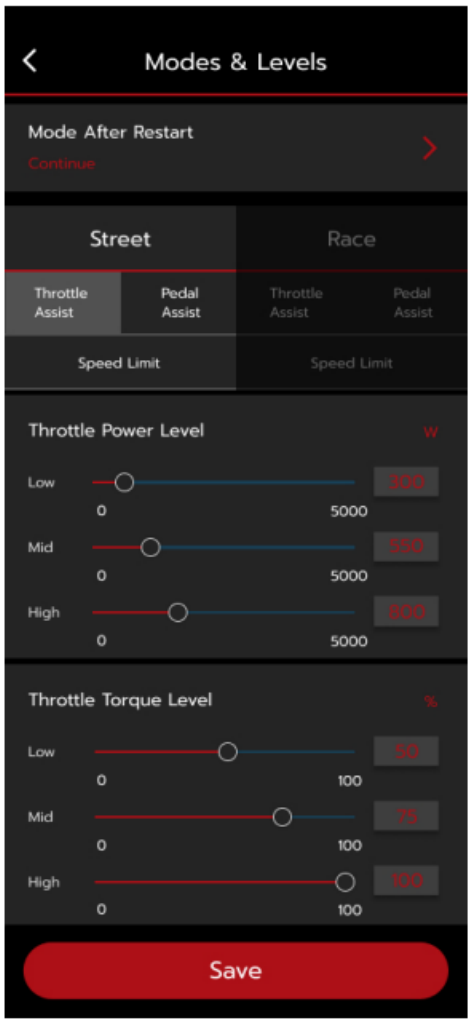

**Motor Direction**
This setting is for users who want to switch the direction to where the motor is facing. Please note that this is reserved for specific uses only.

**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.

**MODES & LEVELS (GEN 3/4)**

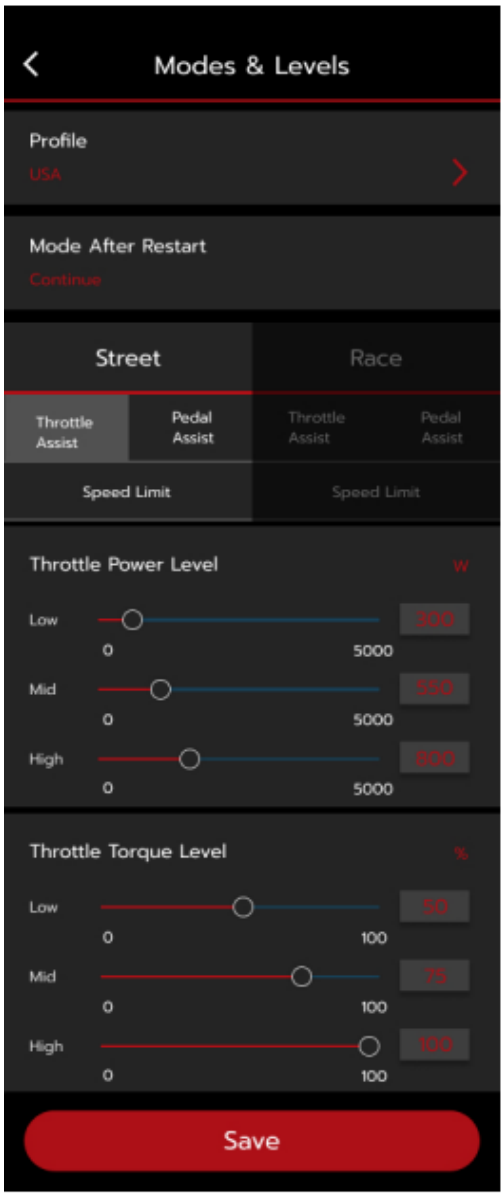
**Race & Street Mode**
You can set the throttle & PAS output independently for both modes.

**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 preference within the capabilities of your controller and battery.



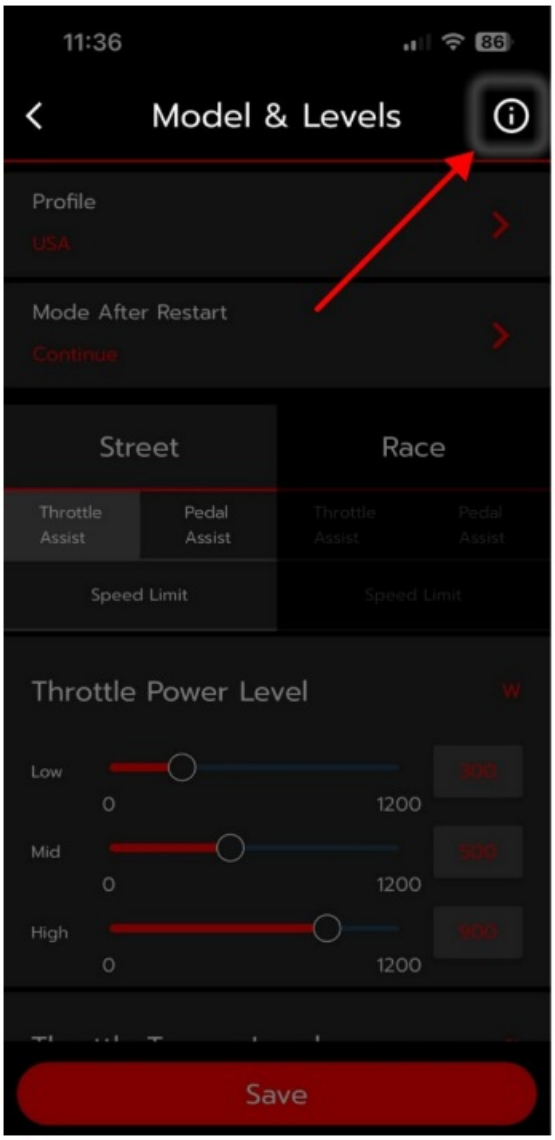

**Street Mode Throttle & PAS**
Street Mode is intended to be set to your region's legal limits. You can adjust these to your preference or your region's legal limits. You can adjust these to your preference or your region's legal limits.

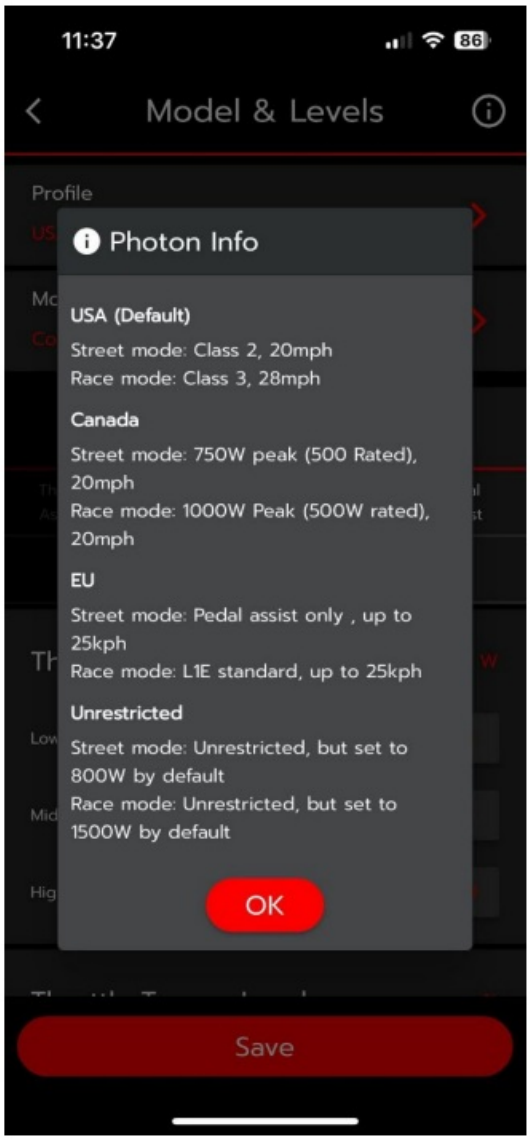
**MODES & LEVELS (PHOTON) Profile (Photon)**
You can select different region's legal limits default settings.




**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.

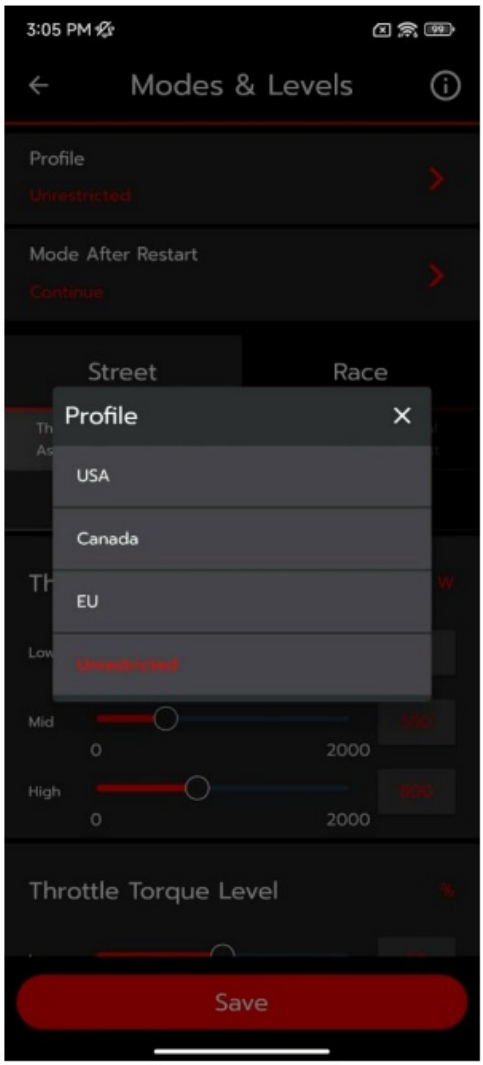
**SELECTING POWER PRESETS (PHOTON)**
For Photon kits, you can choose between different presets based on your region. You can find this under Modes & Levels, by selecting Profile. Then save your settings to avoid losing progress.

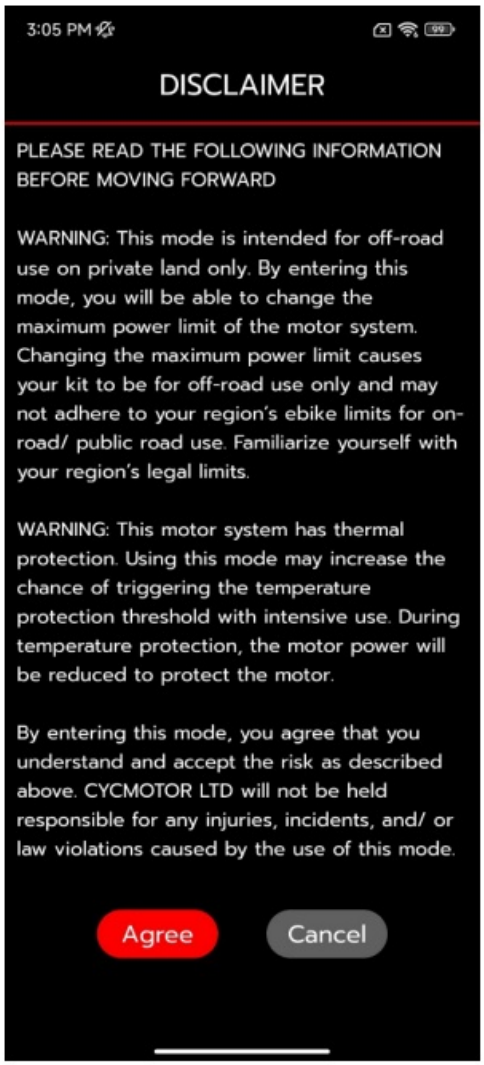



**UNRESTRICTED MODE (PHOTON)**

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.



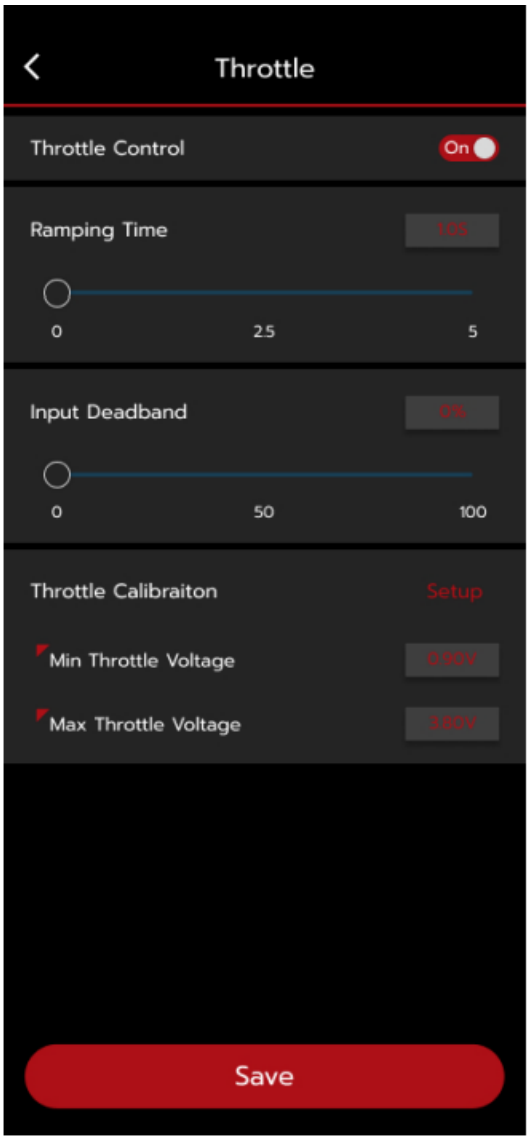

**WARNING**
Entering UNRESTRICTED mode causes your kit to be for off-road use only and may not adhere to your region's ebike limits for on-road/public road use. We recommend you familiarize yourself with your region's legal limits.

## THROTTLE

**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 that 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**
Using your throttle will automatically set the minimum and maximum voltage accordingly. Follow the steps prompted on the screen to set up.




**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.

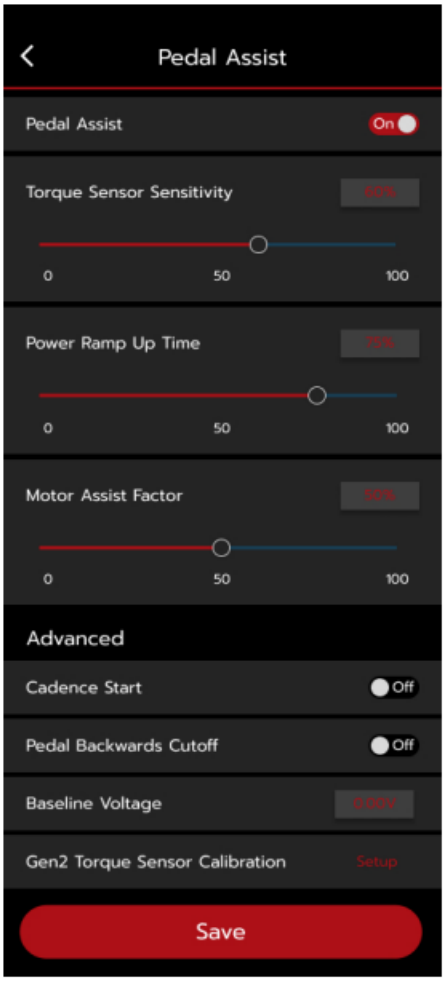
**Max Voltage**
This value should be the same as the Throttle Voltage Reading when the throttle is closed and sets the output when it is not active.

**PEDAL ASSIST**

- 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 pullaway. 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 backward.

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

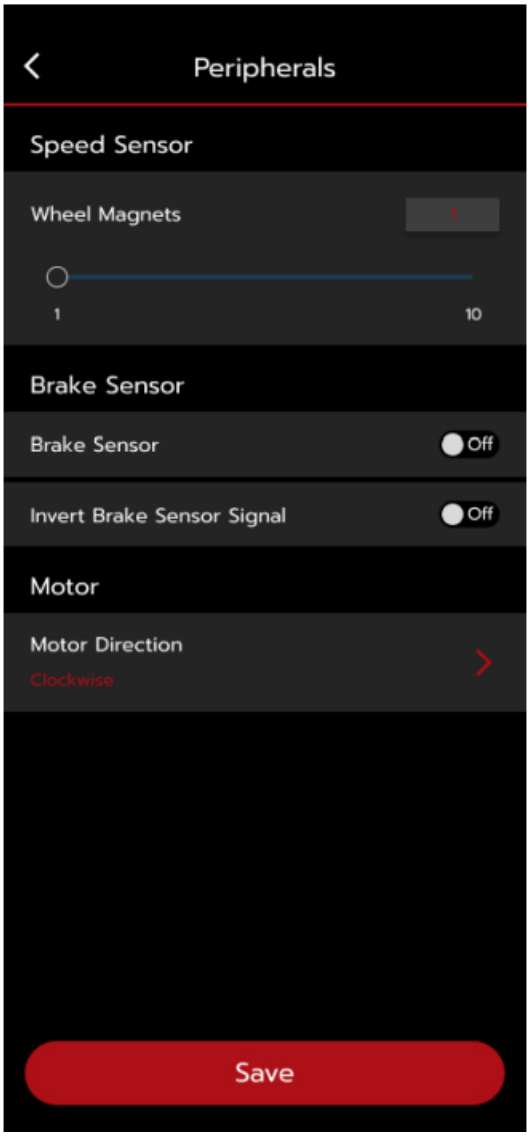
**Gen 2 Torque Sensor Calibration**
Configure your X1 Pro Gen 2 or X1 Stealth Gen 1 kit’s torque sensor to improve the performance of the X6 controller.

## PERIPHERALS SETUP

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

**Wheel Magnet**
This is the number of magnets in the wheel that communicate with the speed sensor. For more accurate vehicle speed limiting and measurement, we advise adding more magnets to the wheel.

**Brake Sensor**
Enable/Disable brake sensors.

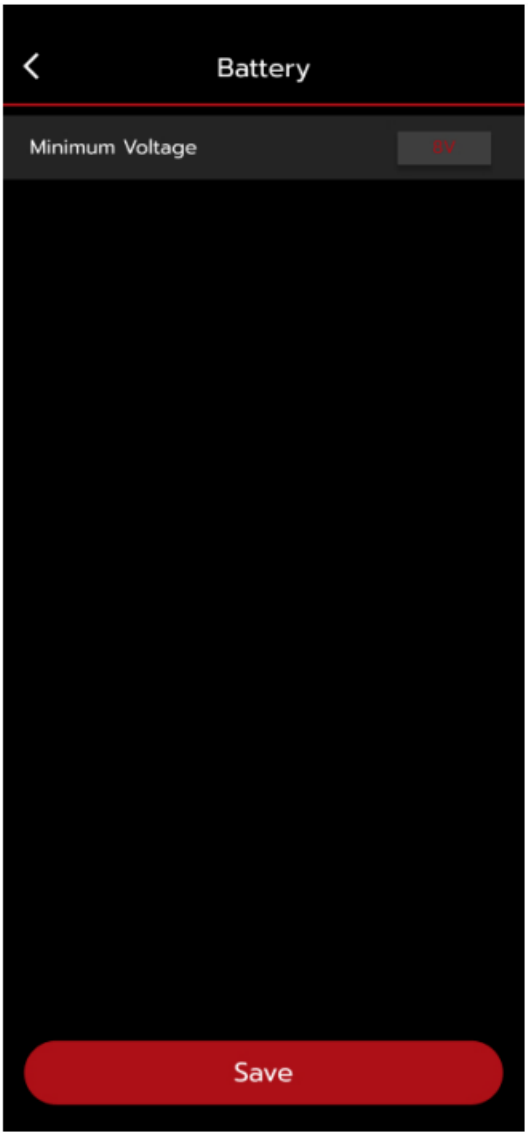



**Invert Brake Sensor Signal**
If you are using brake sensors from a different supplier, you can use this feature to set up your brake sensors as needed.

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

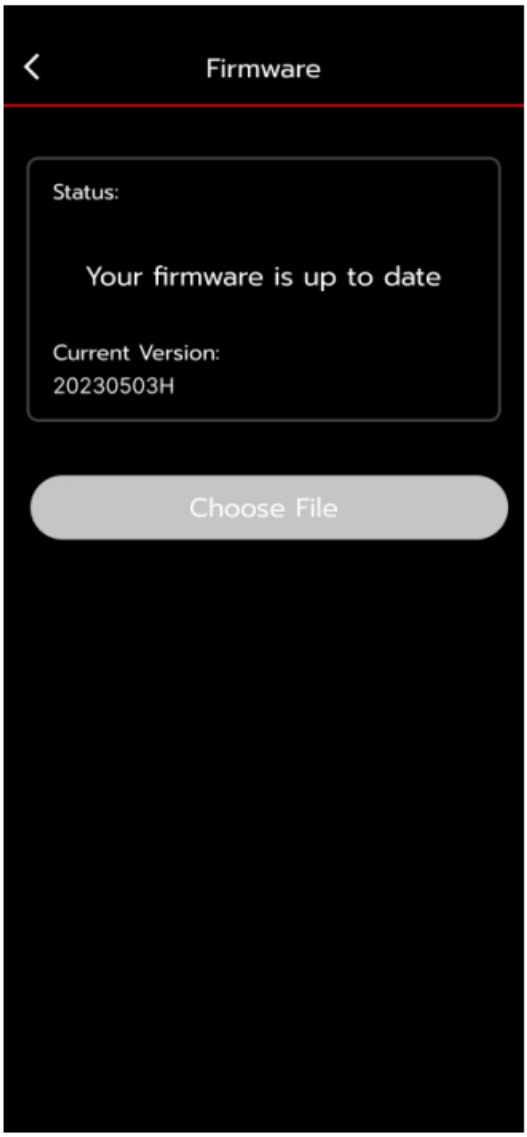
**Thermal Protection (Password)**
This is an advanced feature and requires a password from CYC to change. This allows you to disable your motor temperature sensor. Contact us for more details and password for this feature.

**BATTERY**
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.




**BATTERY INFORMATION**

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 | 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.

**DEFAULT SETTINGS INFORMATION (PHOTON)**

| Peak Limit & Defau It Settings | USA | Canada | EU | Unrestricted |
|---|---|---|---|---|
| Street PAS | **1200W**<br>Low 300W, 50% torque<br>Mid 550W, 75% torque<br>High 800W, 100% torque | **1000W**<br>Low 300W, 50% torque<br>Mid 550W, 75% torque<br>High 750W, 100% torque | **750W**<br>Low 300W, 50% torque<br>Mid 550W, 75% torque<br>High 750W, 100% torque | **2000W**<br>Low 300W, 50% torque<br>Mid 550W, 75% torque<br>High 800W, 100% torque |

| | | | | |
|---|---|---|---|---|
| Street Throttle | **1200W**<br>Low 300W, 50% torque<br>Mid 550W, 75% torque<br>High 800W, 100% torque | **1000W**<br>Low 300W, 50% torque<br>Mid 550W, 75% torque<br>High 750W, 100% torque | **Disabled** | **2000W**<br>Low 300W, 50% torque<br>Mid 550W, 75% torque<br>High 800W, 100% torque |
| Street Speed Limit | **32kph** | **32kph** | **25kph** | **100kph** |
| Race PAS | **1200W**<br>Low 500W, 50% torque<br>Mid 850W, 75% torque<br>High 1200W, 100% torque | **1000W**<br>Low 300W, 50% torque<br>Mid 750W, 75% torque<br>High 1000W, 100% torque | **1000W**<br>Low 300W, 50% torque<br>Mid 750W, 75% torque<br>High 1000W, 100% torque | **2000W**<br>Low 500W, 50% torque<br>Mid 1000W, 75% torque<br>High 1500W, 100% torque |
| Race Throttle | **1200W**<br>Low 300W, 50% torque<br>Mid 850W, 75% torque<br>High 1200W, 100% torque | **1000W**<br>Low 300W, 50% torque<br>Mid 750W, 75% torque<br>High 1000W, 100% torque | **1000W**<br>Low 300W, 50% torque<br>Mid 750W, 75% torque<br>High 1000W, 100% torque | **2000W**<br>Low 500W, 50% torque<br>Mid 1000W, 75% torque<br>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**.

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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 are accessible at CYCMOTOR LTD unless otherwise defined in this Privacy Policy.

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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.

## Documents / Resources

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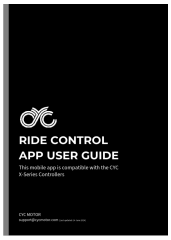
|  | **CYC X-Series Ride Control App** [pdf] User Guide<br>X-Series Controllers, Gen 3, Photon, X-Series Ride Control App, X-Series, Ride Control App, Control App, App |

## References

- **Privacy Policy | CYCMOTOR LTD**
- **User Manual**