CYC Ride Control

App Users Guide

INTRODUCTION

CYC RIDE CONTROL

Monitor & customize your e-bike riding experience for all CYCMOTOR mid-drive systems. Use it as a secondary dashboard, settings set-up, or both. Unleash all the possibilities of e-bike customization at your fingertips.

The mobile app is not the only way to customize your system. The controller is also programmable via the included display- integrated for your convenience.

This platform is your go-to-station for your CYCMOTOR kit & X6/X12 controllers.

FEATURES

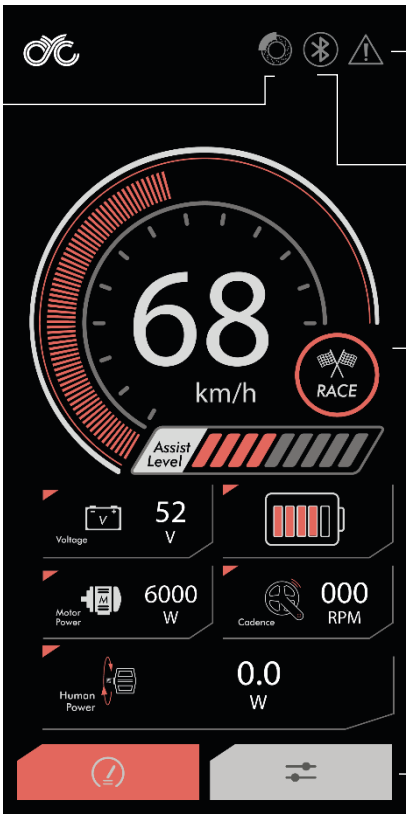
- Bluetooth connectivity
- Complete with torque sensor configuration
- Compatible with X6 & X12 controllers
- Real-time dashboard for all your motor & riding information
- Fully customizable parameters for pedal assist, throttle, & gear preferences

DASHBOARD

Brake sensor indicator **COMING SOON**

ALL PARAMETERS SHOW

REAL-TIME INFORMATION

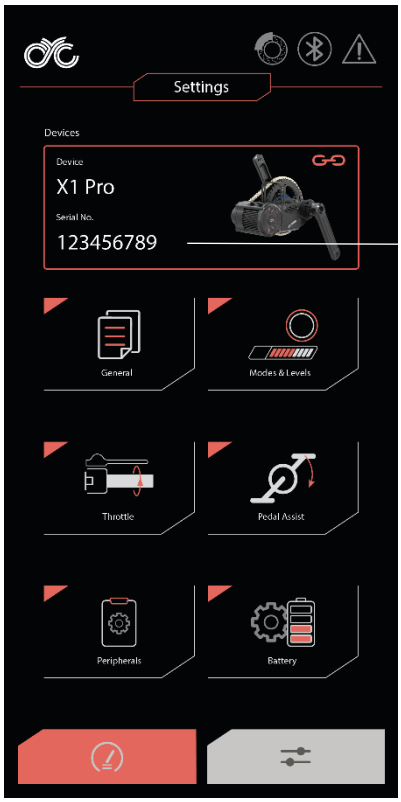


Warning icon to check error codes & clear faults

Bluetooth icon to connect to your device

Instantly change between **STREET** & **RACE** mode

Change between your **DASHBOARD** & **SETTINGS** page



Serial number connected to the controller

ALL PARAMETERS SHOW

REAL-TIME INFORMATION

CONNECTING A DEVICE

STEP #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)

STEP #2:

Available devices will then be listed, select your kit and it will begin connecting to the controller. (Please note signal strength)

STEP #3:

Once connected, the CONNECT icon will change stating you are connected & can select again to disconnect.

MAIN SETTINGS PAGE

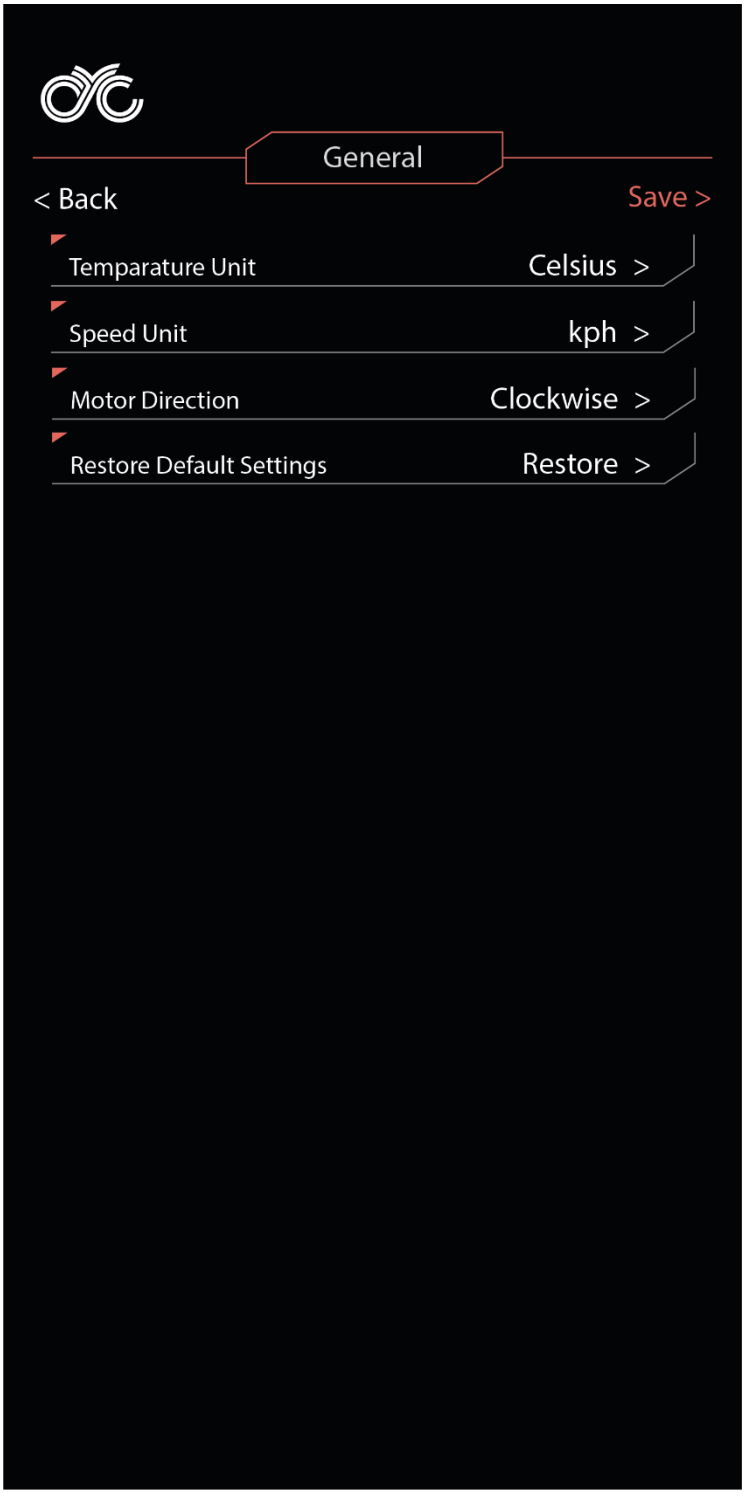
The settings page allows you to navigate through different parameter categories. There are six different categories with each providing a set of adjustable parameters or readings from your ebike system.

IMPORTANT

Save all new changes in parameters to flash or risk losing progress. Any changes made that were not saved will be lost after a restart. Note to save after every change in value.

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

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

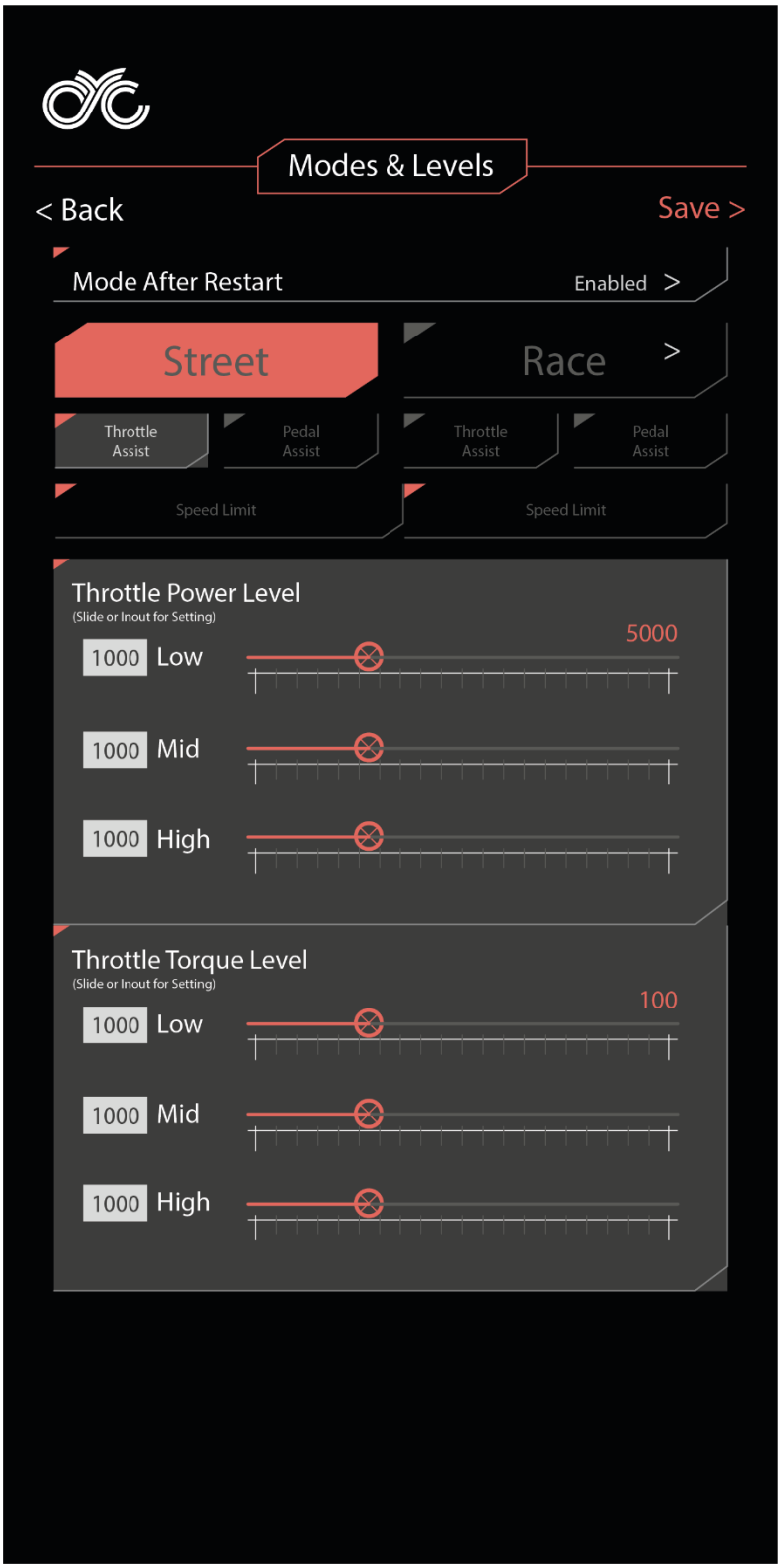
This setting is for users who'd want to switch the direction to where the motor is facing. Note that this is reserved for specific uses only.

WARNING: Do not change this setting if using the motor in its default position. Contact CYC for assistance.

RESTORE DEFAULT SETTINGS

Restore to factory/default settings.

MODES & LEVELS



RACE & STREET MODE

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

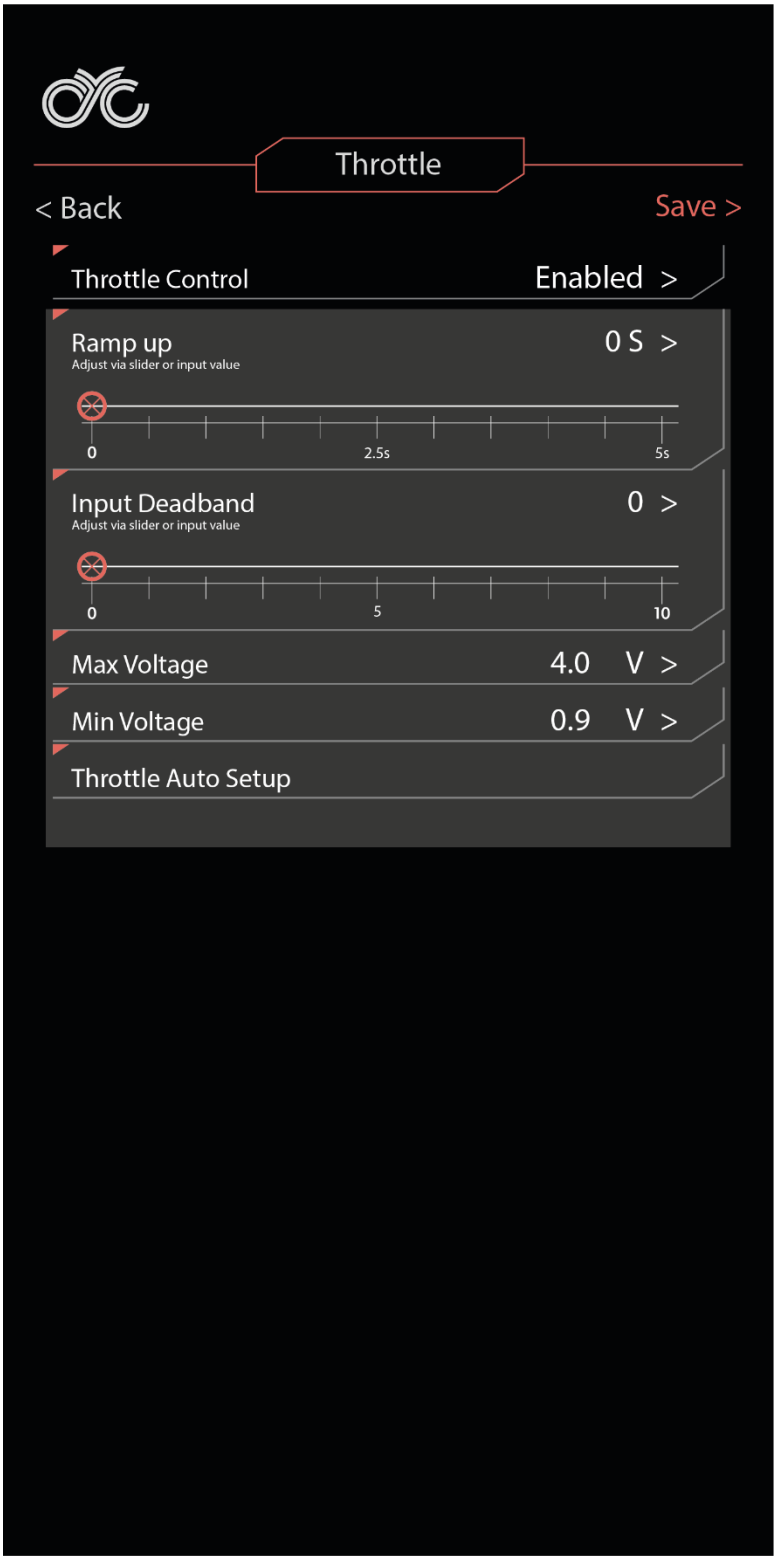
RACE MODE THROTTLE & PAS

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 own preference within the capabilities of your controller. The default setting in Race Mode is 3000W & 100 km/hr.

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. You can adjust these to your own preference or to your region’s legal limits. The default setting in Street Mode is 750W & 25Km/hr.

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 to set 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.

MAX VOLTAGE

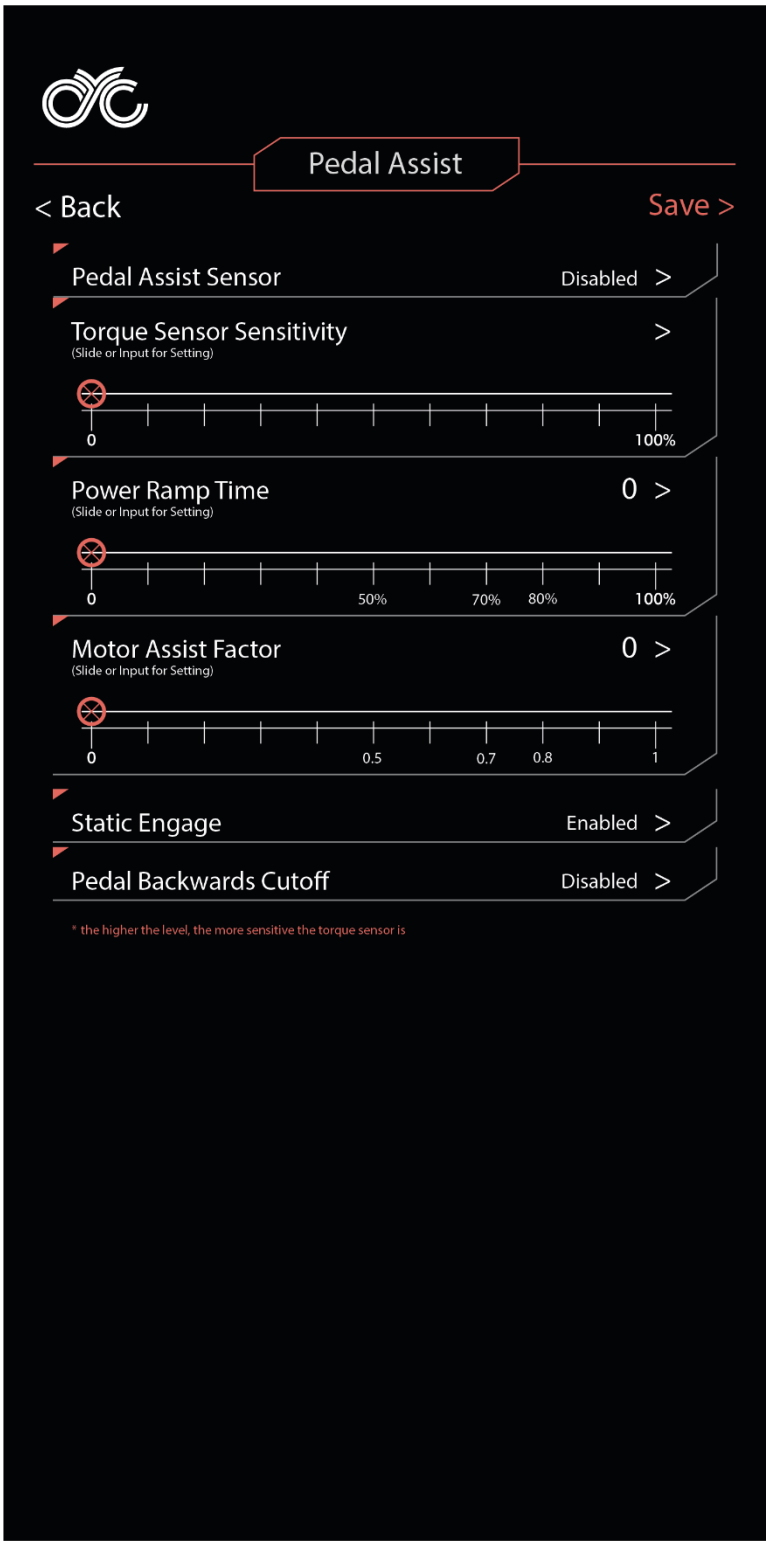
This value should be the same as the Throttle Voltage Reading when the throttle is closed and sets the output when it is not active.

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.

THROTTLE AUTO SETUP

If you'd like to use your own throttle, this will automatically setup the minimum and maximum voltage accordingly. Follow the steps as prompted on the screen.



PEDAL ASSIST

PEDAL ASSIST SENSOR

Enabling 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 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.

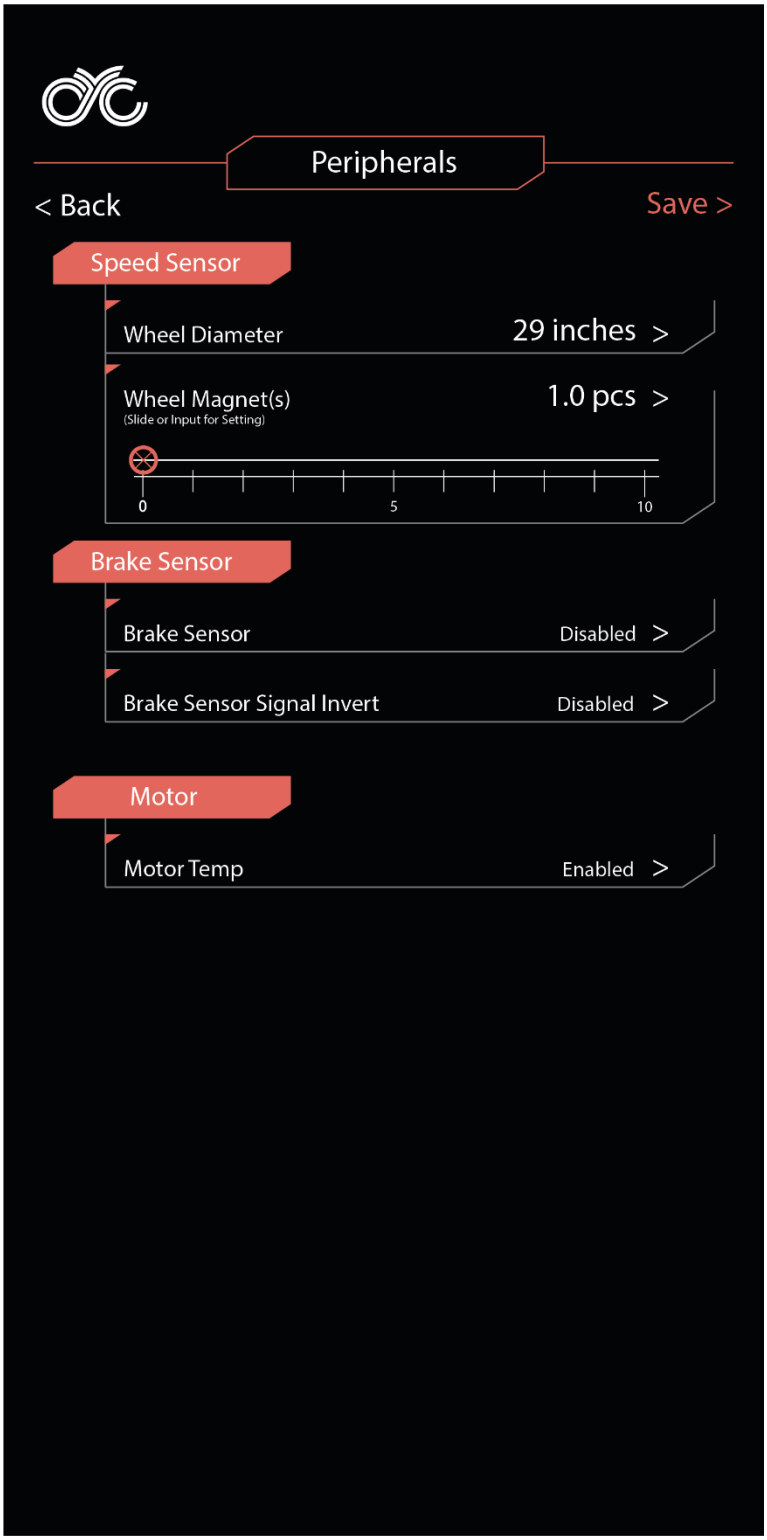
STATIC ENGAGE

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 features all you to cut the motor power when you pedal backwards.

PERIPHERALS SETUP



SPEED SENSOR

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 display speed. This will give more accurate speed liming under different modes.

Remember to set the correct wheel size within the display as well (only applicable to 500c & 750c displays). Kindly refer to your user manual.

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

Brake Sensor Enable

Enable/Disable brake sensors

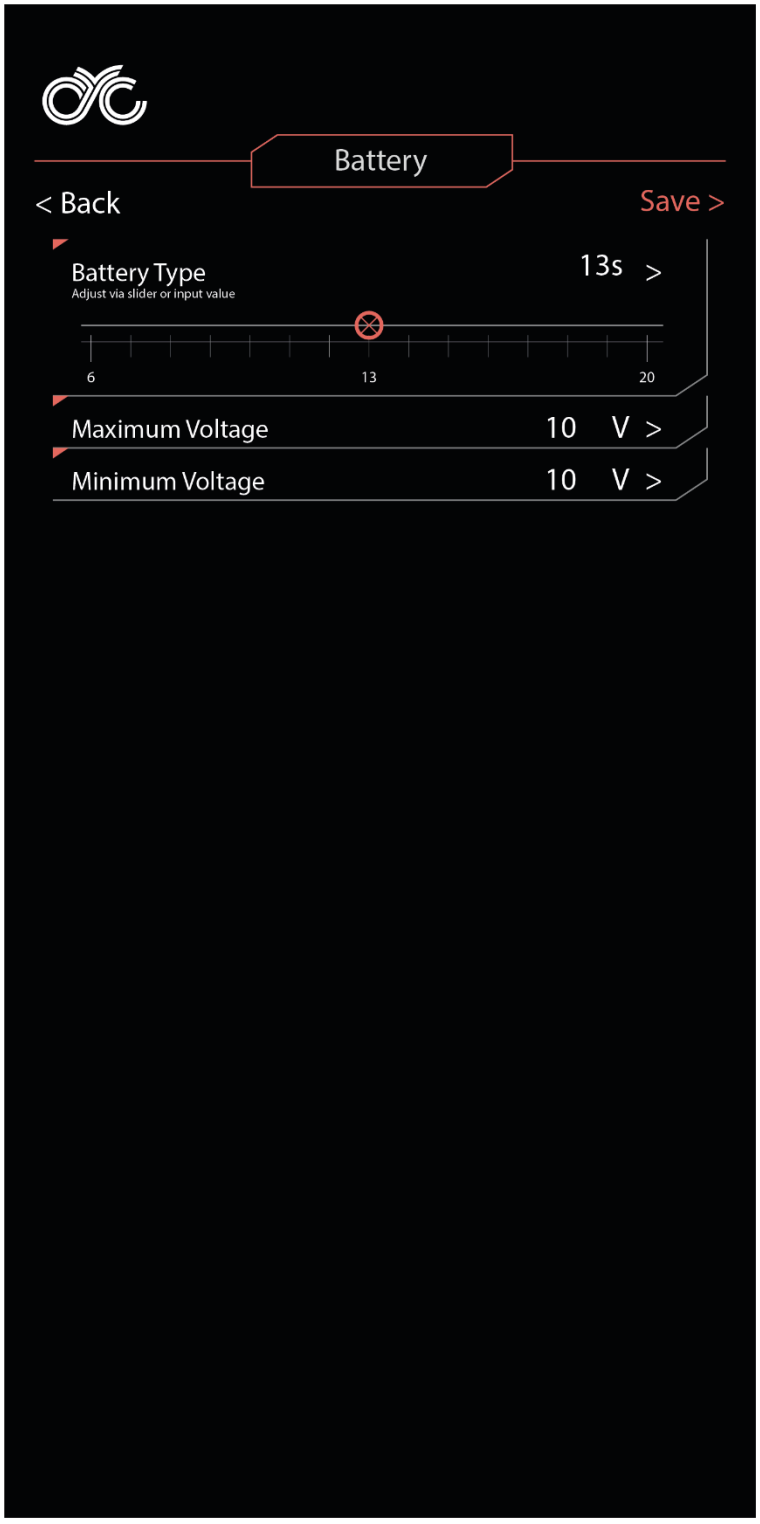
BRAKE SENSOR SIGNAL INVERT TAB

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

MOTOR TEMP

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

BATTERY



SERIES OF CELLS

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

MAXIMUM VOLTAGE

The value the controller will fault when connecting too high a voltage to the system. An error will be triggered if a battery is too high of a voltage.

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.

DISCLAIMER

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

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