KEY-DISP

Display Manual

KD718-X

Content

Product name and Model

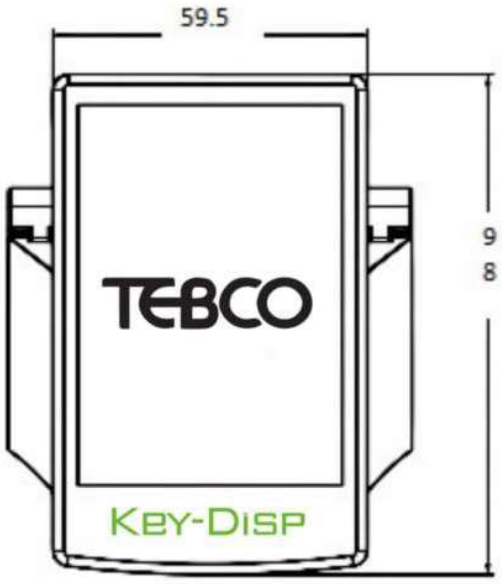
E-bike TFT LCD display；Model：KD718-X

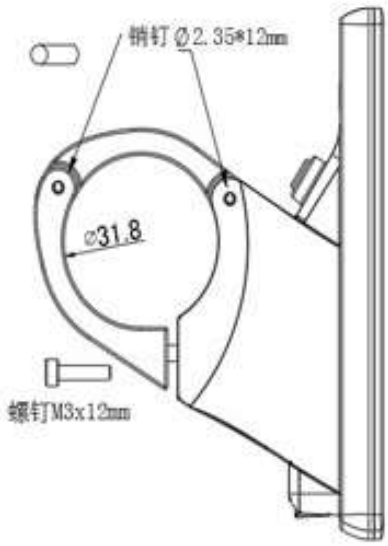
Specification

- Voltage:36V/48V
- Rated working current：40mA
- Max working current： 200mA
- Off-state leakage current： <1μA
- Operating temperature：-20～60℃
- Storage temperature：-30～70℃

Appearance and Size

Product appearance and dimensional drawing (unit: mm)





Remote Definition

The KD718-X display matches the K5 button, and there are 5 buttons:

including power on/off, i button, plus button, headlight button, minus button/boost button; in the follow-up instructions, the word "ON/ OFF" instead; the i button is replaced with the word "i"; the plus key is replaced with "+"; the minus/boost key is replaced with "-".

■When the E-bike is parked for approx. 5 minutes, the E-bike system switches off automatically

Functions Summary

KD718-X has many functions to meet riders' needs. The indicating contents are as follows:

- ●Smart battery SOC
- ●Motor power
- ●PAS level adjustment and indication
- ●Speed（including RT speed, Max. Speed, Avg Speed）
- ●Distance（Trip Distance and ODO）
- ●6KM/h push-assist control and indication
- ●Riding time
- ●Backlight control and indication
- ●Error code
- ●USB connection
- ●Various Parameters Settings(e.g., wheel size, speed limited, battery capacity, PAS parameter, etc.)

General Operation

◆Power on/off

Briefly press the power button to turn on the e-bike system and provide power to the controller. Press and hold the power button again for 2 seconds, the e-bike system will be turned off. E-bike systems no longer use battery power.

Leakage current is less than 1 μA when the e-bike system is turned off.

■When the E-bike is parked for approx. 5 minutes, the E-bike system switches off automatically

◆Display Interface

After the display is turned on, the display will show real-time speed and Trip (km) by default. Short press the "i" button to display information and switch between in Trip distance (km),ODO (km), maximum speed (km/h), average speed (km/h), riding time

Display information interface

◆6KM/h Push assistance

Press and hold the "-" button > 2S, the e-bike enters the state of electric power-assisted state. E-bike travel at a speed of less than 6 km/h. At the same time, the screen displays "  ". Release the "-" button, the e-bike will immediately stop the power output and return to the state before the push assistance.

6KM/h push assistance interface

■The 6KM/h Push assistance function, please do not use it in the riding state

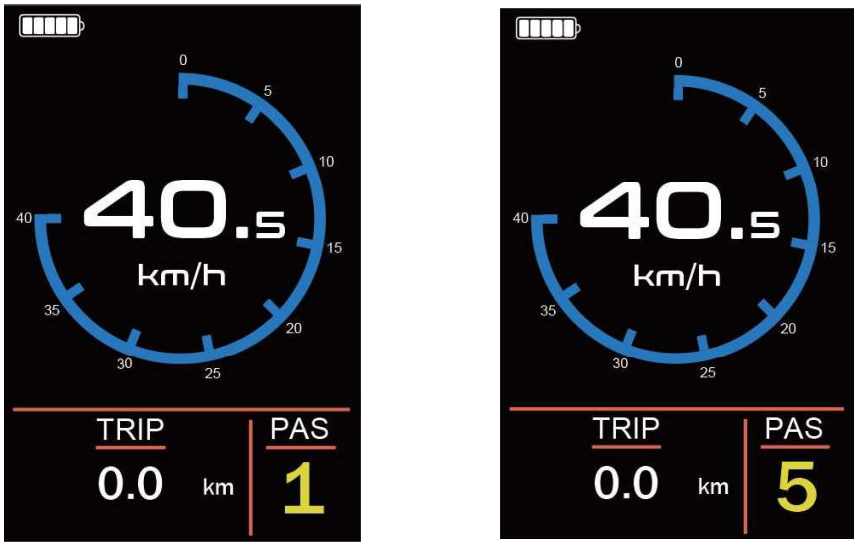
◆Headlight control

Press the " " button > 2S to turn on the headlights, after turning on the headlights, the brightness of the backlight will decrease. Press and hold the " " button > 2S again to turn off the headlights

Headlights turn on interface

◆PAS level

Short press the "+" or "-" button to switch the power assist level of the e-bike and change the output power of the motor. The default output power range of the display is 0-5 level. Level 0 is stop power output, level 1 is the lowest power, Level 5 is the highest power.



PAS level interface

◆USB Connection

When the display is plugged into a USB external device, the display will show the interface in the figure below.

USB connection interface

◆Error code

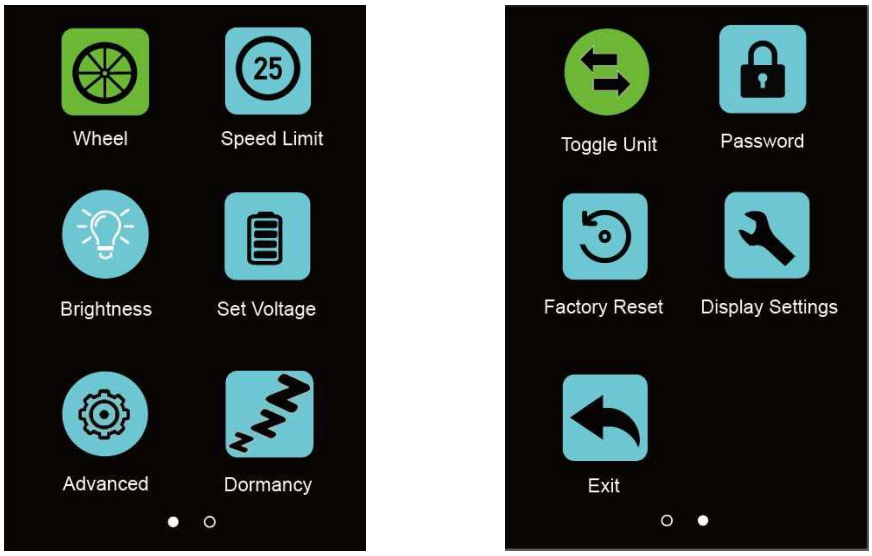
When the electronic control system of the e-bike fails, the display will show an error code. For the definition of the detailed error code, see Attached Table 1

Error code interface

■When an error code is displayed, please remove the fault in time, the e-bike will not be able to run normally after a fault occurs.

Display Parameter Setting

When the e-bike is stationary, press and hold the “+” and “-” keys simultaneously for > 2 seconds, and the display enters the setting state.

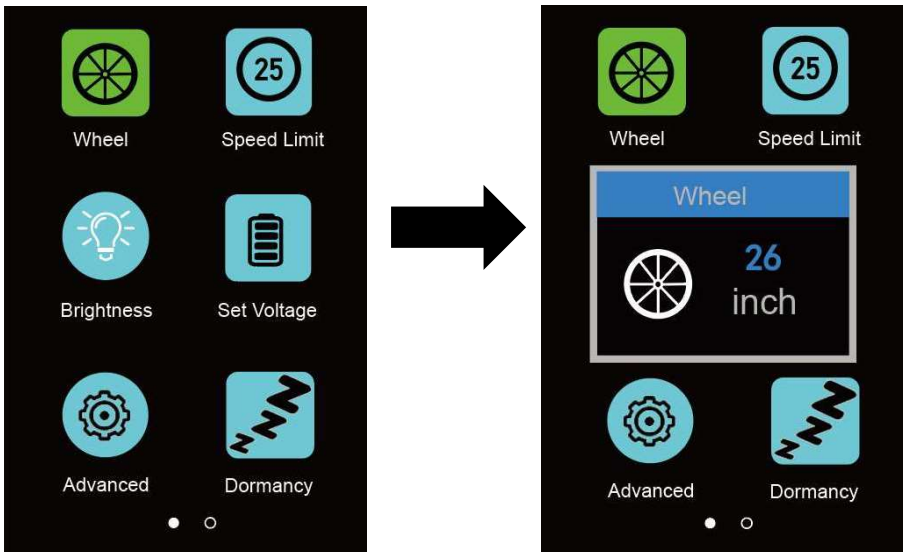


Setting interface

■All settings are operated with the bike is stationary

◆Wheel Diameter Setting

"Wheel" indicates the wheel diameter setting. Short press the "i" key to enter the setting, and select the required value through the "+" or "-" key. The wheel diameter can be set in the range of "16, 18, 20, 22, 24, 26, 700C, 28inch", and the default wheel diameter is 26inch. Short press the "i" key to save and exit to "Wheel".

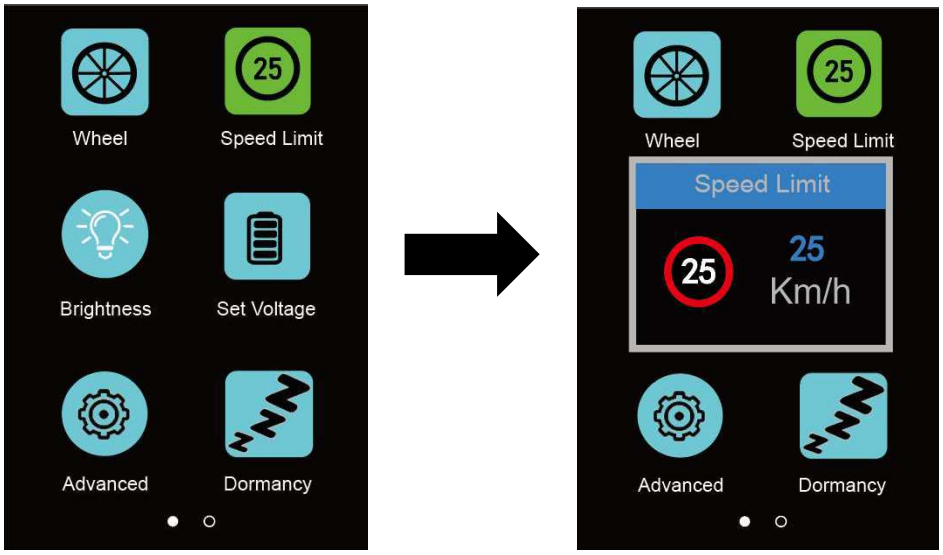


Wheel diameter interface

◆Speed limited setting

"Speed Limit" indicates the speed limit setting. When the speed of the e-bike is greater than the speed limit, the power output of the e-bike will be reduced.

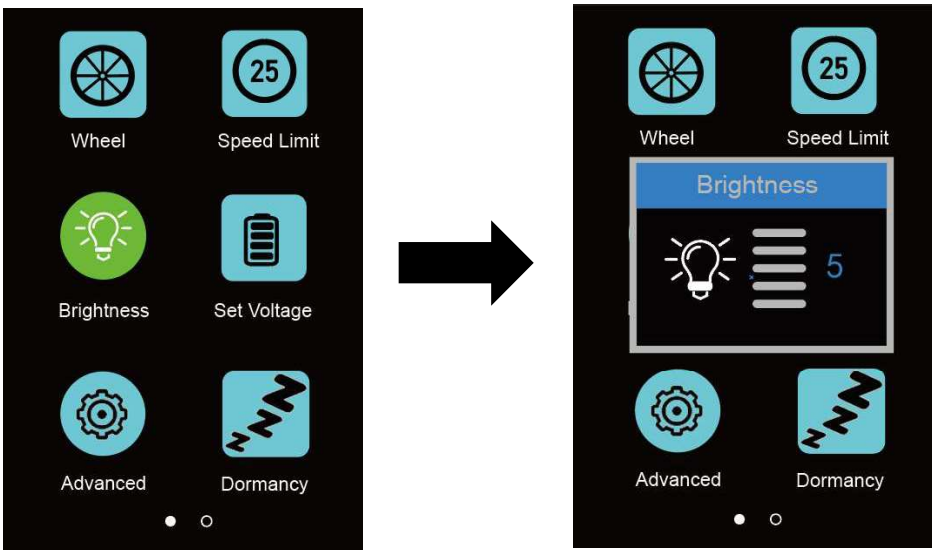
Short press the "i" key to enter the setting, and select the required value through the "+" or "-" key. The speed limit can be set in the range of "12-40Km/h", and the default speed limit is 25Km/h. Short press "i" key to save and exit to "Speed Limit".



Speed limited setting interface

◆Backlight brightness setting

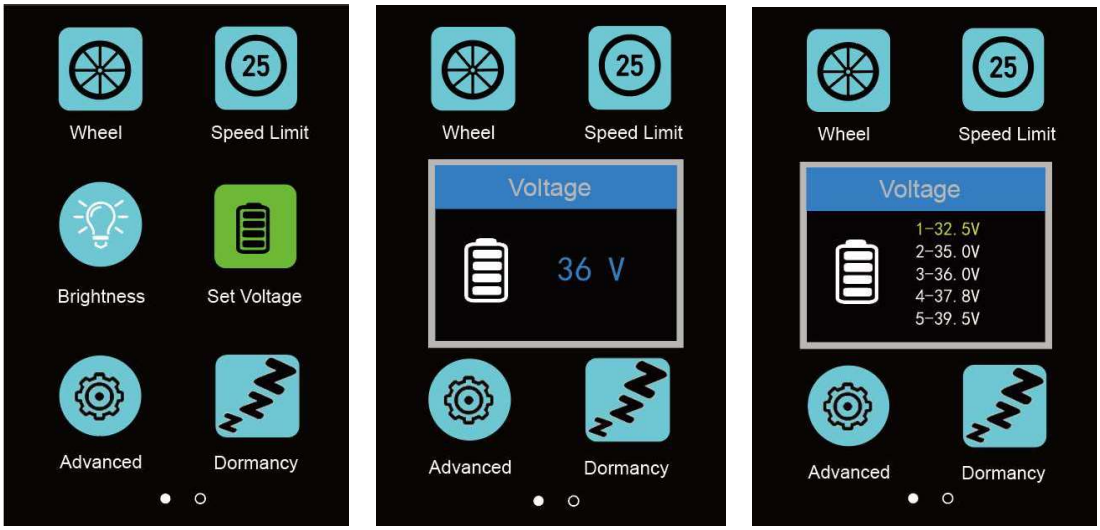
"Brightness" standards for the brightness of the backlight, click the "i" button to select "Brightness", the adjustable range of the brightness of the backlight is "1-5", level 5 represents the brightest, the lower the level, the lower the brightness., press the "i" button to confirm and save the changed setting.



Backlight brightness setting interface

◆Voltage setting

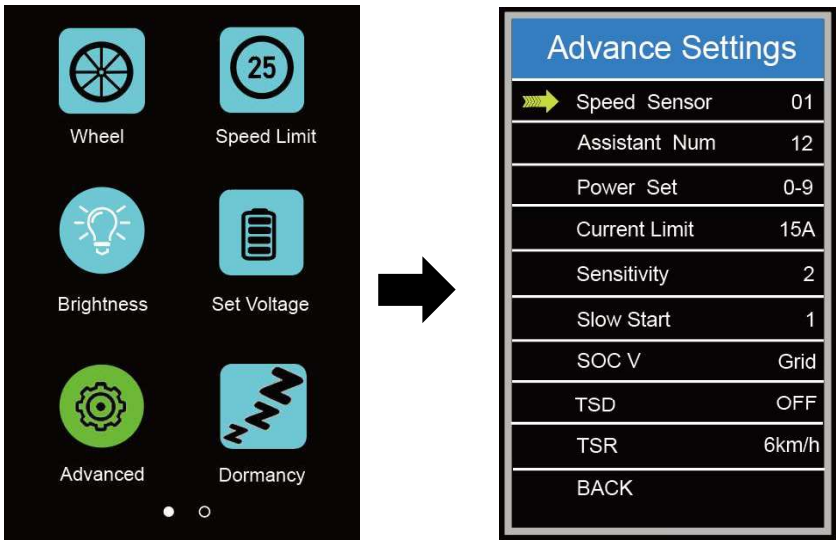
"Set Voltage" indicates the voltage setting. Short press the "i" key to enter the settings. Press the "+" or "-" button to select "36V/48V", and the default rated voltage is 36V. Short press the "i" button again to set the corresponding voltage segment, and set the voltage value through the "+" or "-" button. Short press "i" key to save and exit to "Set Voltage".



Voltage setting interface

◆Advanced setting

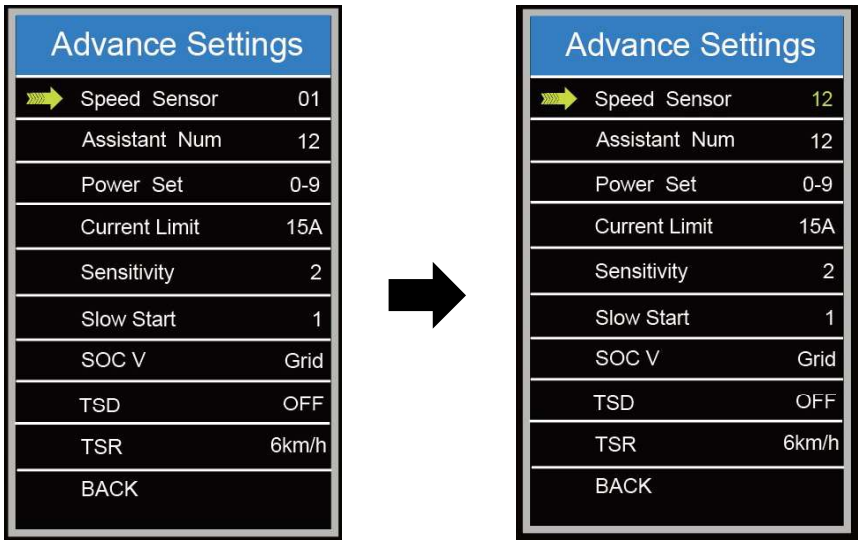
"Advanced" means dynamic parameter setting. These include the number of magnets for the speed sensor, the number of magnets for the PAS sensor, PAS level, current limited, booster sensitivity, slow start, voltage, throttle level, throttle booster level and other parameters.



Advanced setting interface

Number of magnets for the Speed sensor

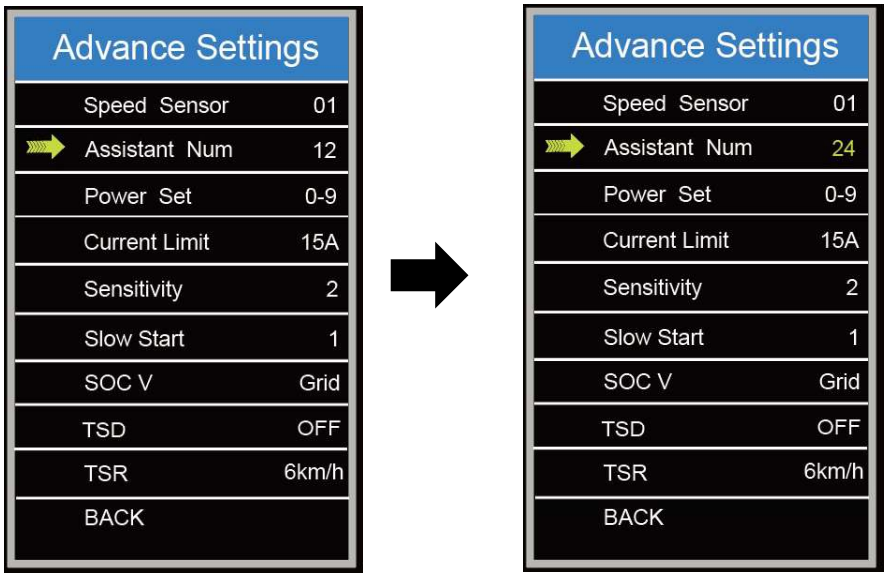
"Speed Sensor" indicates the speed sensor magnet number setting. Short press the "i" key to enter the setting, and select the value by the "+" or "-" key (the range is "1-12"). Short press the "i" button to save the settings.



Speed sensor magnets setting interface

Number of magnets for the PAS sensor

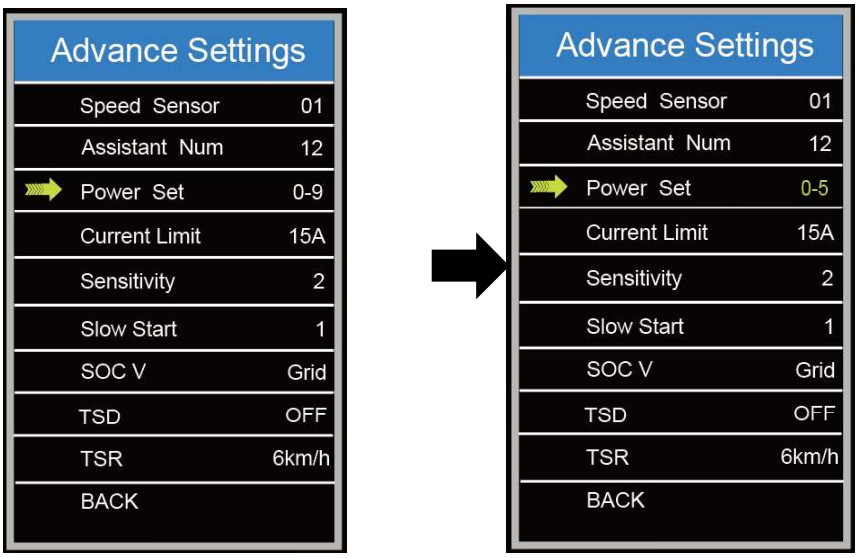
“Assistant Num” indicates the magnet number setting of the PAS sensor. Short press the "i" key to enter the setting, and select the value through the "+" or "-" key (the range is "4-9, 12, 24, 32"). Short press the "i" button to save the settings.



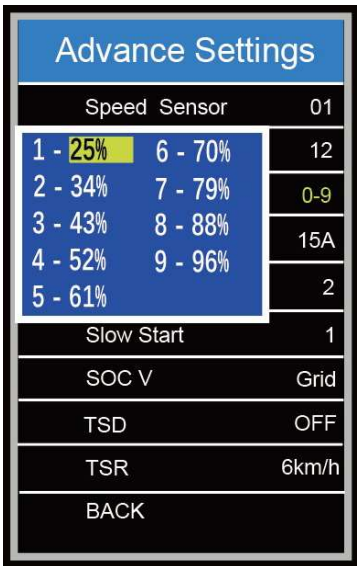
PAS sensor magnets setting interface

PAS level setting

"Power Set" means power boost level mode. Short press the "i" key to enter the setting (there are 8 modes available "0-3, 1-3, 0-5, 1-5, 0-7, 1-7, 0-9, 1-9"), The default 0-9 level assist mode. Use the "+" or "-" button to change the assist level, short press the "i" button to enter the assist ratio setting, short press the "+" or "-" button to change the assist level ratio parameter, short press "i" to enter the next After the assist ratio of one level and the assist ratio of 9 level are set, short press the "i" key to save the setting.



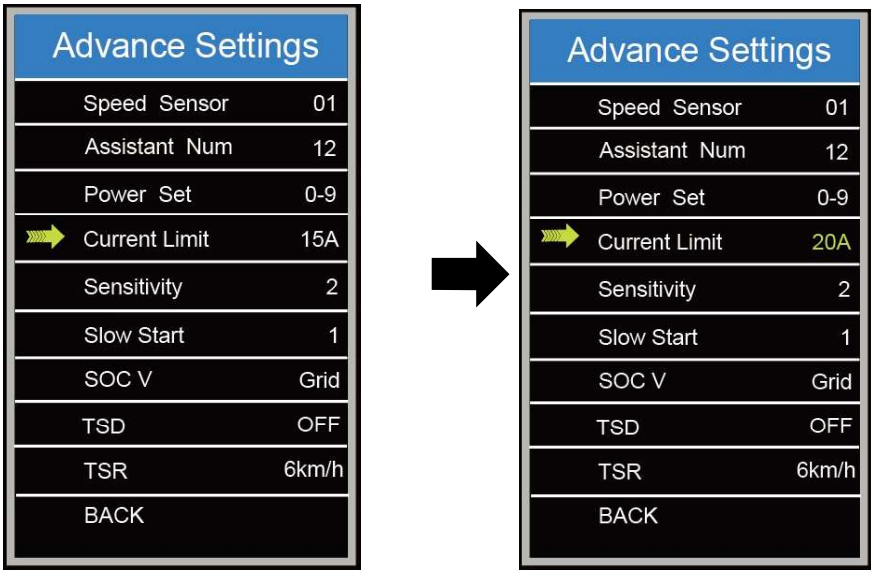
PAS level setting interface



Assist ratio setting interface

Current limited

"Current Limit" indicates the current limit setting. Short press the "i" button to enter the setting, and short press the "+" or "-" button to select the current limit value (the adjustable range is "7-22A"), and the default current limit is "15A". Short press the "i" key to save the settings

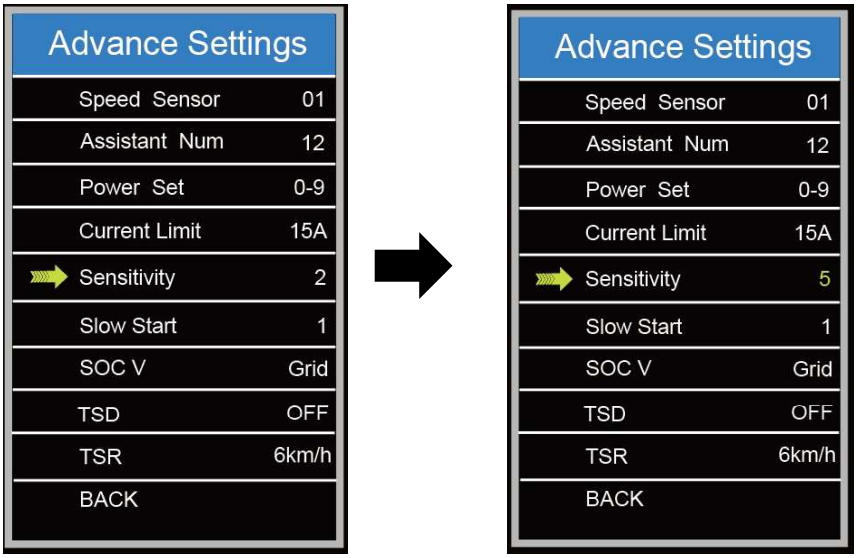


Current limit setting interface

Assist Sensitivity Settings

"Sensitivity" indicates the power assist sensitivity setting. Short press the "i" button to enter the setting, and short press the "+" or "-" button to select the sensitivity value (the range is "1-5"), and the default is 2. Short press the "i" key

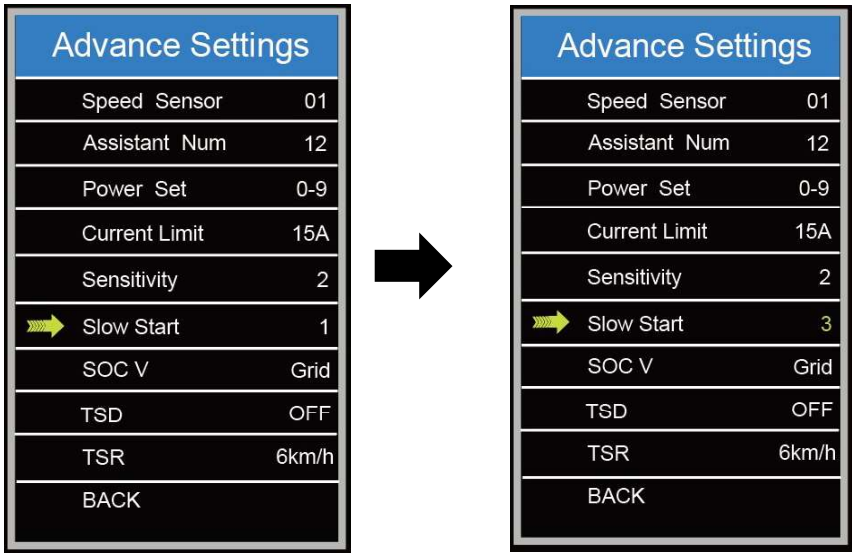
to save the settings.



Assist Sensitivity Settings interface

Slow start setting

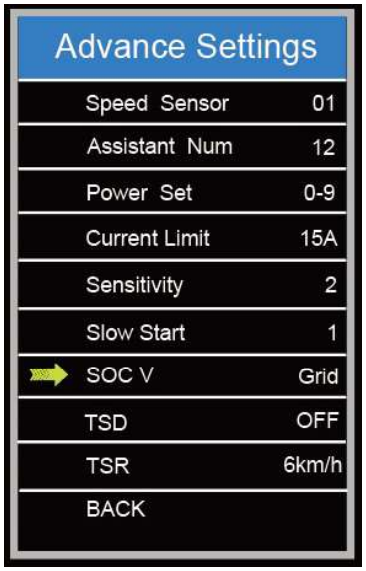
"Slow Start" indicates the slow start setting. Short press the "i" key to enter the setting, and select the value by the "+" or "-" key (the range is "1-4"), and the default is 1. Short press the "i" button to save the settings.



Slow start setting interface

Voltage

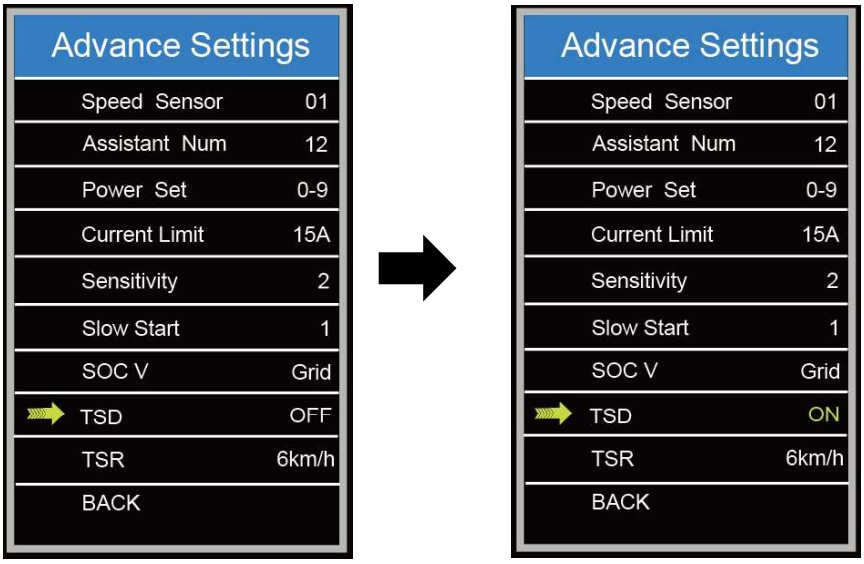
"SOC V" indicates voltage display setting. The default is " Gird (battery grid display)" which can only be viewed and cannot be changed.



voltage display setting interface

Throttle level setting

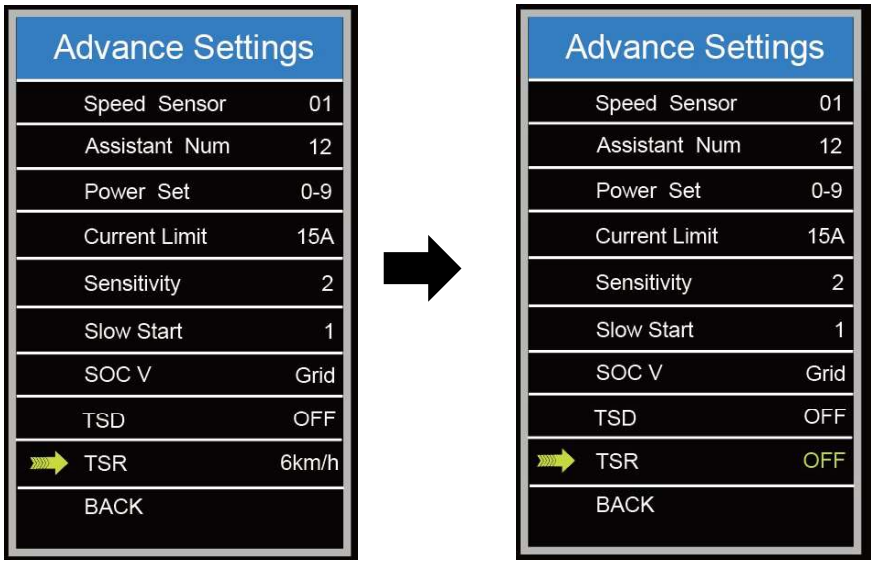
"TSD" stands for the throttle level setting. Short press the "i" key to enter the setting, and use the "+" or "-" button to select "ON (grading)/OFF (not grading)", the default is "OFF (rotating the handle without grading)". Short press the "i" button to save the settings.



Throttle level setting interface

Throttle push assistance setting

"TSR" stands for the throttle assist push setting. Short press the "i" key to enter the setting, and select "6km/h (enabled)/OFF (disabled)" by the "+" or "-" button, and the default is "6km/h (enabled)". Short press the "i" button to save the settings.

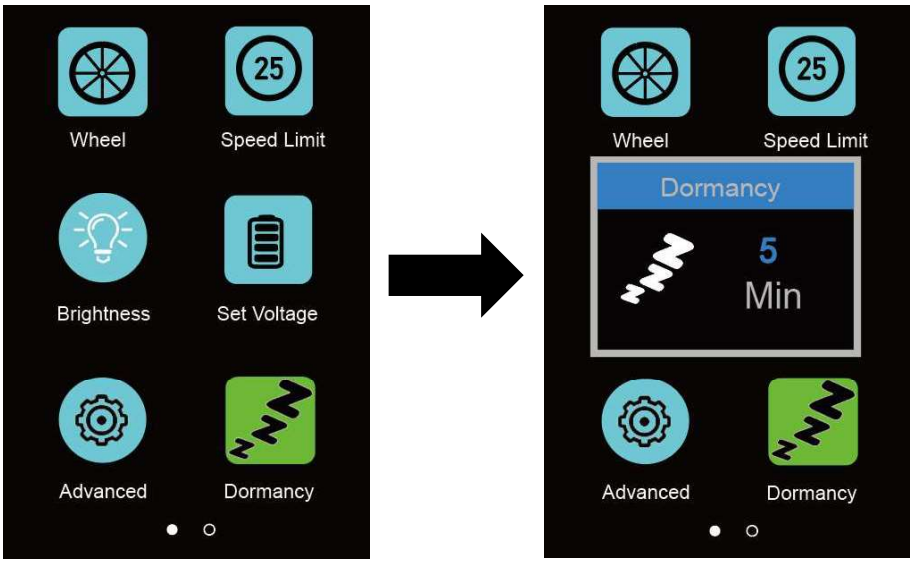


Throttle push assistance setting interface

◆Dormancy time setting

"Dormancy" indicates the automatic shutdown time setting. Short press

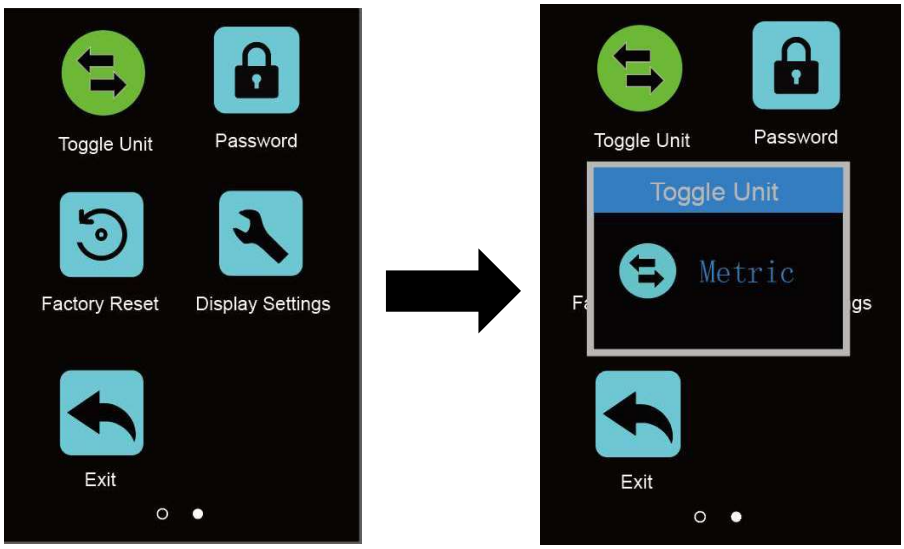
the "i" key to enter the settings. Use the "+" or "-" button to select the automatic shutdown time: "1-9Min, OFF", the default automatic shutdown time is 5Min. Short press the "i" key to save and exit to "Dormancy".



Dormancy time setting interface

◆Unit setting (km/mile)

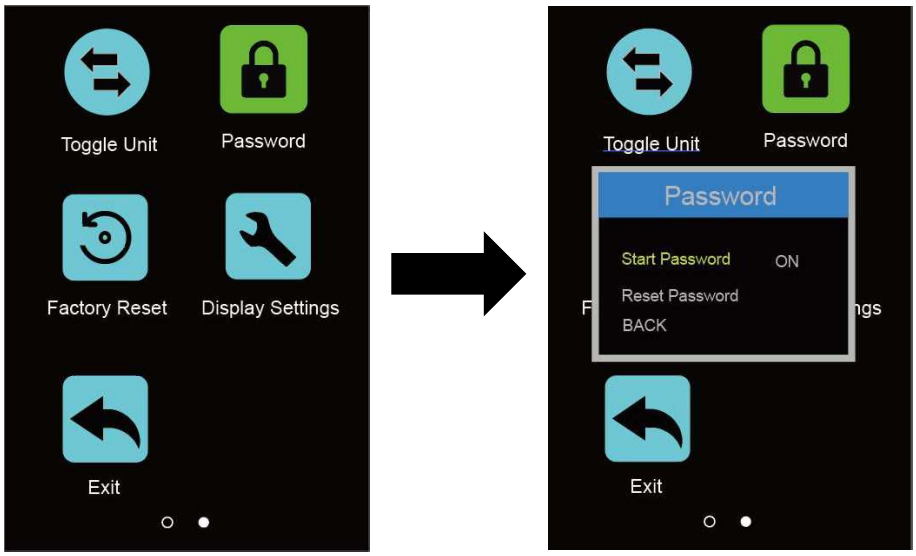
"Unit" indicates the imperial and metric unit conversion setting. Short press the "i" key to enter the settings. Press the "+" or "-" button to select "Imperial (mile)/Metric (km)", and the display defaults to Metric (km). Short press the "i" key to save and exit to "Unit".



Unit setting interface

◆Password setting

Short press the "+" or "-" button to select "Password", short press "i" to enter the setting, and then short press the "i" button to select Start; short press the "+" or "-" button to switch "OFF" /"ON ", the following is the specific switching method.



Password setting interface

Power on password enable

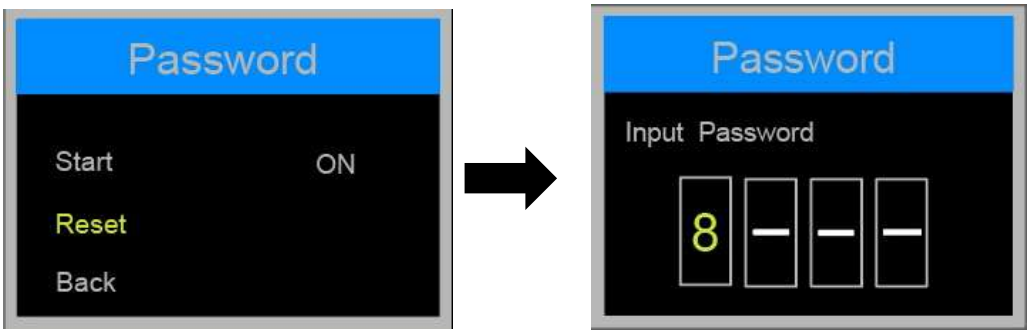
After selecting "ON" in the "Password" interface, short press "i" to confirm,

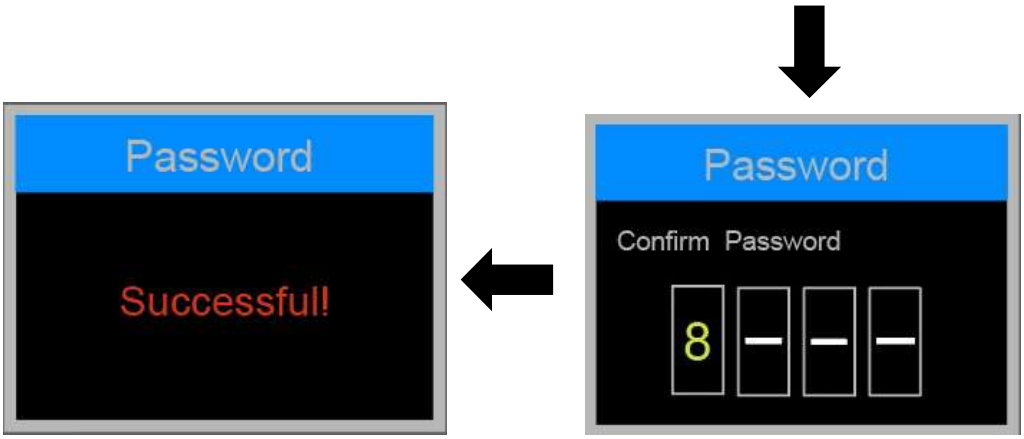
the interface prompts to enter the password, short press the "+" or "-" key to enter the value, short press the "i" key to shift, 4-digit password after the input, short press the "i" key to confirm; the interface prompts to enter the password again. After the two inputs are consistent, the system prompts that the password is set successfully. If the two inputs are inconsistent, you need to repeat the first step to enter the new password and confirm. After the password is set successfully The 2S interface automatically jumps to the original setting interface.

Power on password setting interface

Power on password reset

Short press "+" or "-" to select "Reset", and short press "i" again to confirm. At this time, the interface prompts to enter the current password. After the password is entered correctly, the interface prompts to enter the new password. The subsequent operations are consistent with the new password. After the password is changed successfully, the 2S interface automatically jumps to the original setting interface.

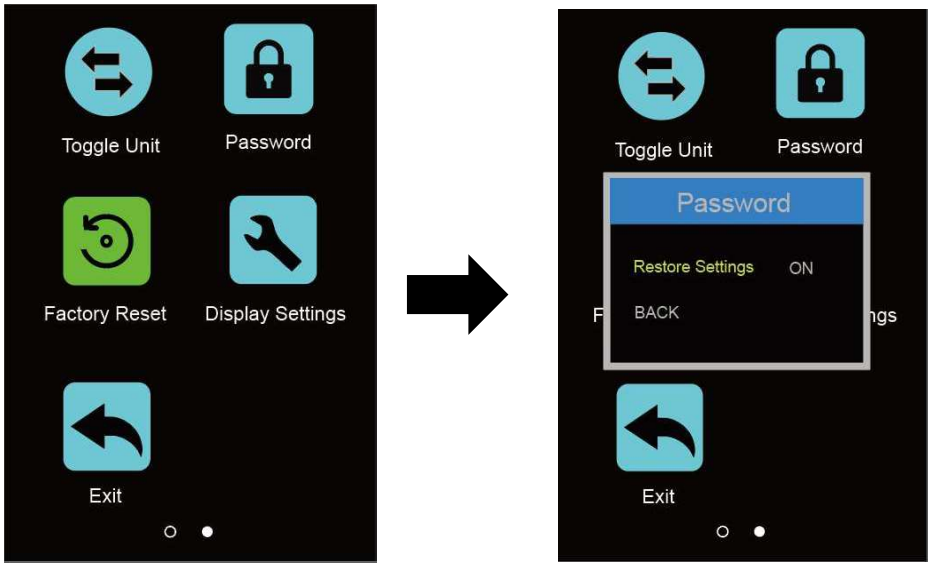




Power on password reset

◆**Factory restore setting**

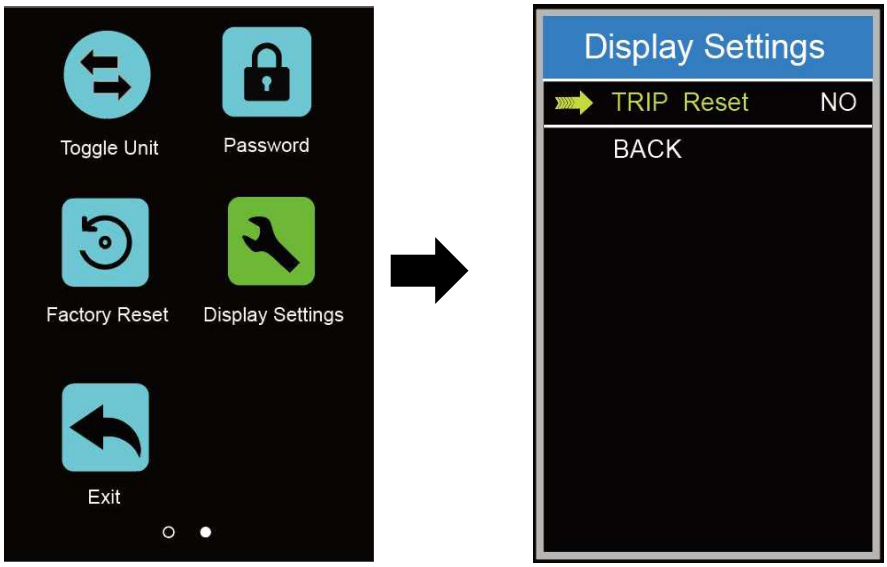
"Factory Reset" means restore factory settings. Short press the "i" key to enter the settings. Press the "+" or "-" button to select: "NO (do not restore factory settings)/YES (restore factory settings)", the default value is NO (do not restore factory settings). Short press "i" key to save and exit to "Factory Reset"



Factory restore setting interface

◆**Display basic parameter setting**

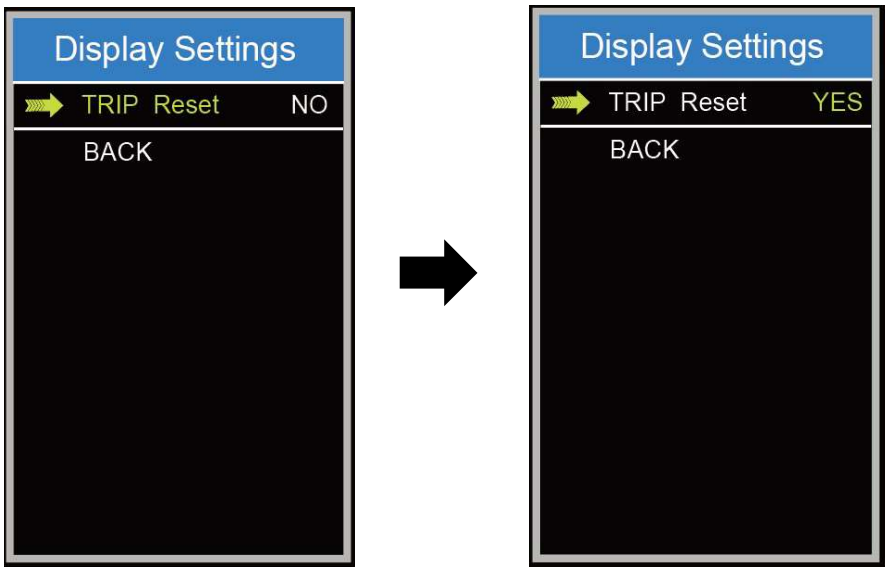
“Display” Indicates the basic parameter settings of the display, such as Trip reset etc.



Display basic parameter settings

Trip reset

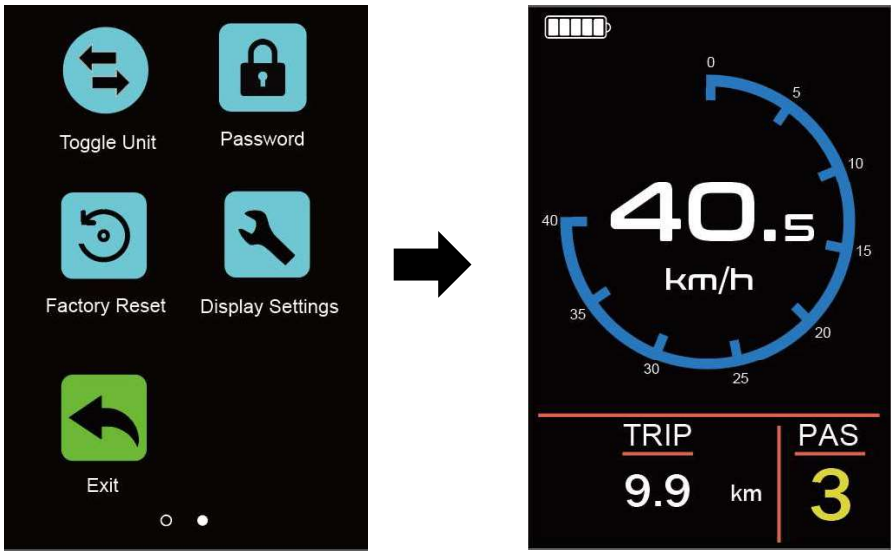
"TRIP Reset" means trip reset setting. Press the "+" or "-" button to select "NO (do not reset the trip)/YES (reset trip)". Short press the "i" button to save the settings.



Trip reset interface

◆**Exit setting**

"Exit" means to exit the setting. Click the "i" key to exit the display parameter setting.



Exit setting interface

■If no any operation within one minute, the display will automatically exit the setting state.

Quality Assurance and Warranty Scope

I Warranty
1. The warranty will be valid only for products used in normal usage conditions.
2. The warranty is valid for 24 months after the shipment or delivery to customers
II the following cases do not belong to our warranty scope.
1. The display is demolished.
2. The damage of the display is caused by wrong installation or operation.
3. Shell of the display is broken when the display is out of the factory.
4. Wire of the display is broken.
5. The fault or damage of the display is caused by the force majeure (e.g., fire, earthquake, etc.).
6. Beyond Warranty period.

Display Wire

Standard connector wire sequence

Wire Sequence table

Item code	Wire color	Definition
1	Red	VCC
2	Blue	K
3	Black	GND
4	Green	RX
5	Yellow	TX

■Some wires use waterproof connectors, and the user cannot see the color inside.

◆Warnings:

1. Use the display with caution. Don't attempt to release or link the connector when battery is on power.
2. Try to avoid hitting the display.
3. Don't modify system parameters to avoid parameter disorder. Or else, you will not be able to ride the bike normally.
4. Make the display repaired when error code appears.

These operating instructions are a general version. Some versions of the software shown will different from the specification, depending on the version actually used.

◆Table 1：Error code definition

Error code	Definition
21	Abnormal current
22	Abnormal throttle
23	Abnormal motor
24	Abnormal Motor Hall signal
25	Abnormal brake
30	Abnormal communication