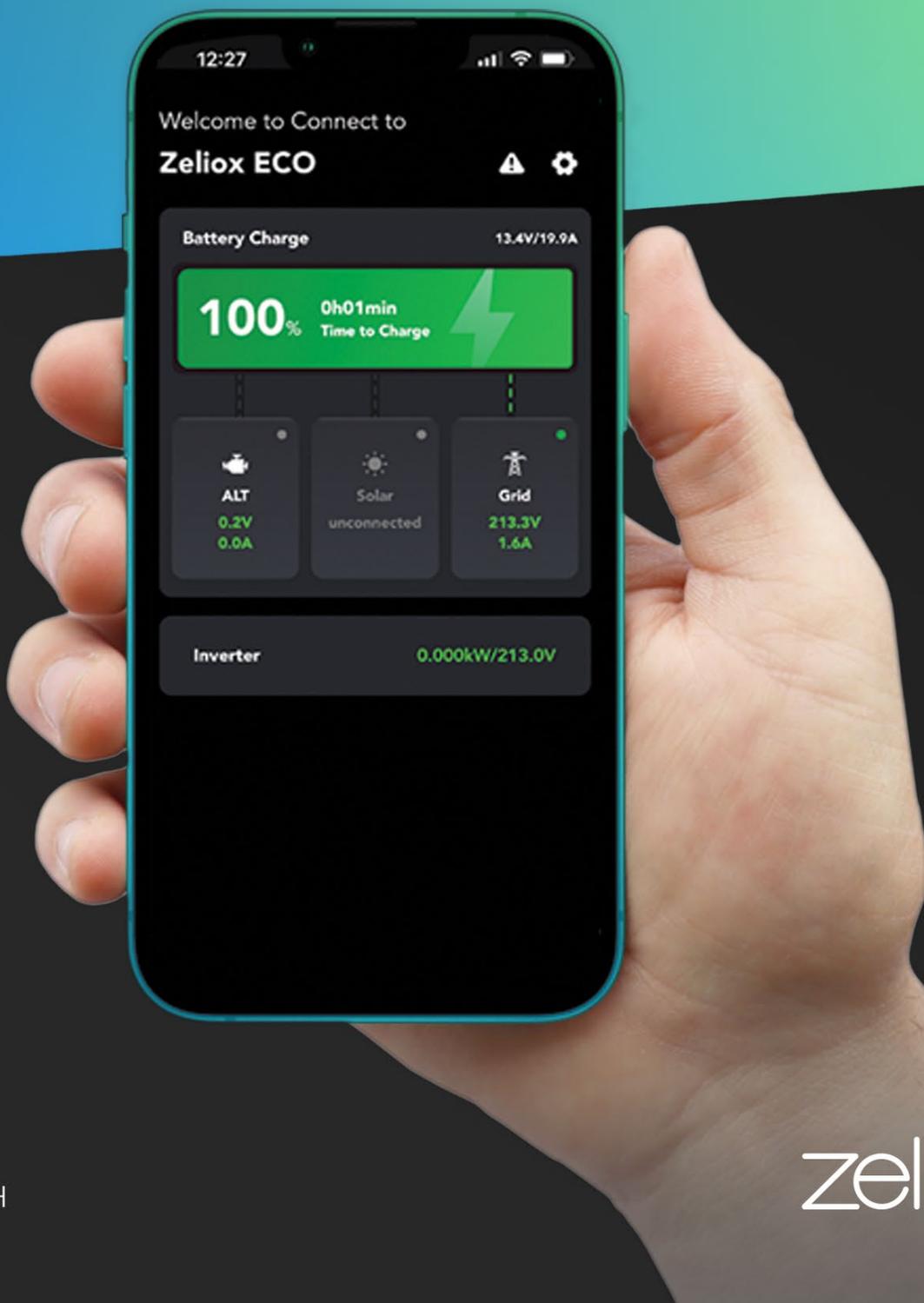


User Manual

Zeliox ECO APP (4G)



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1 Wiring

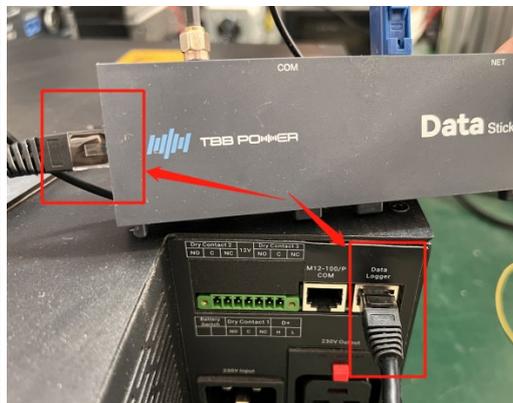
Assembling the Data Stick and plugging it into the system



OR



OR



2 Upgrade system software

Check the PCU software version first.

Please upgrade PCU software to the newest version : V1.19



Note: After you completed the updating of the PCU, you need to Restore Default Settings of ECO through the APP, otherwise the new function of "charging current setting" will not be effective.

3 Settings

3.1 Delete the previous Zeliiox ECO APP first, and then scan the code to download the new version

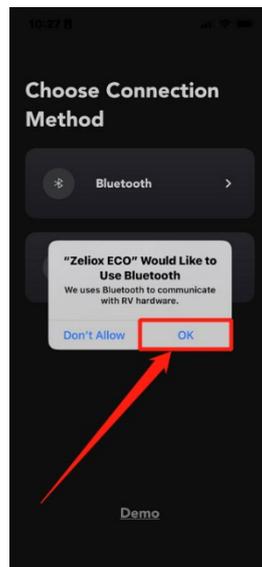
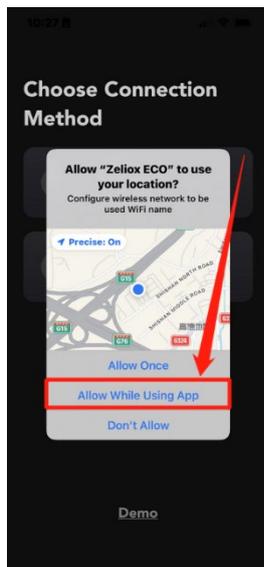
APP Store



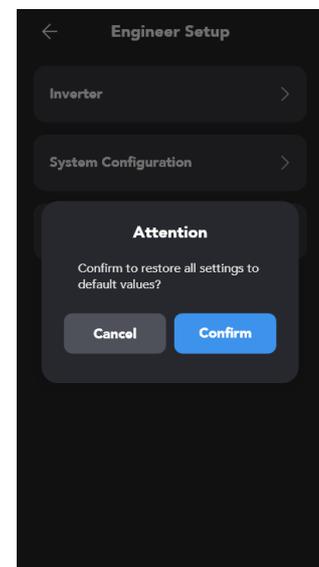
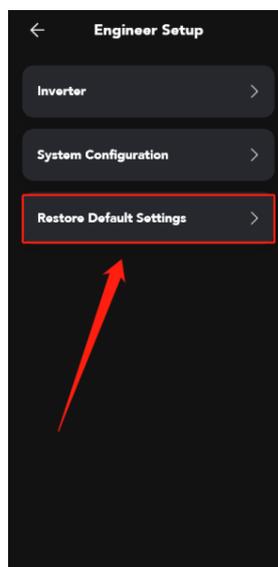
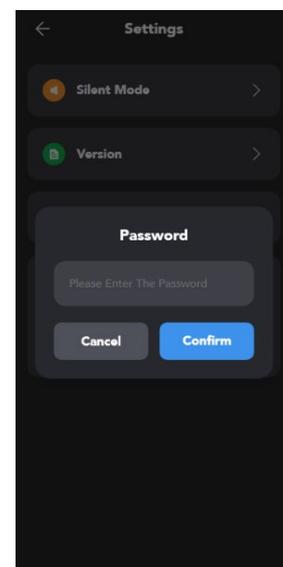
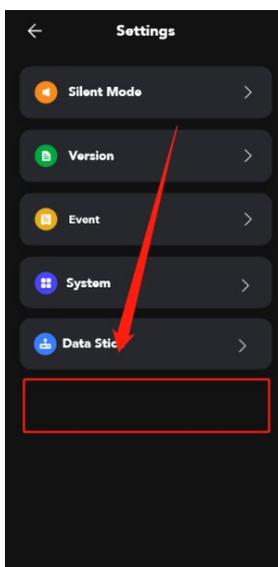
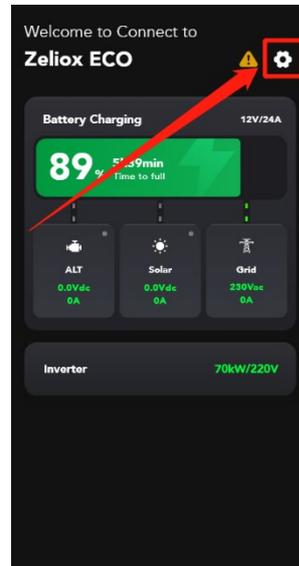
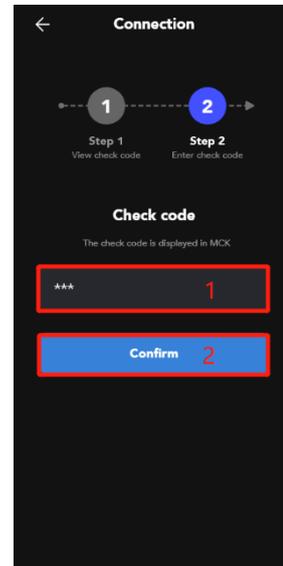
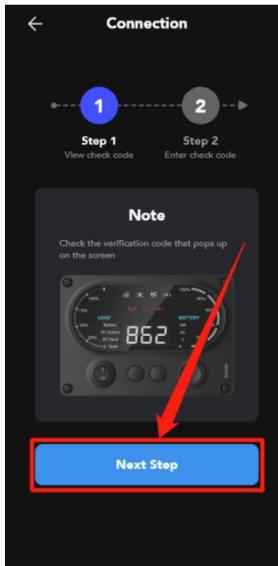
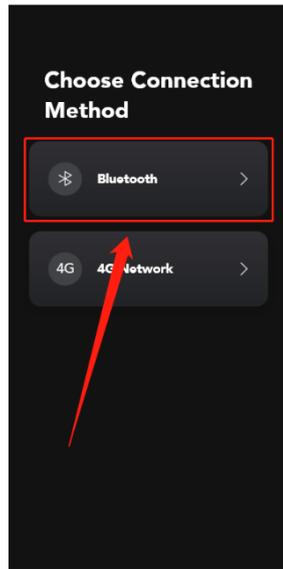
Google Play



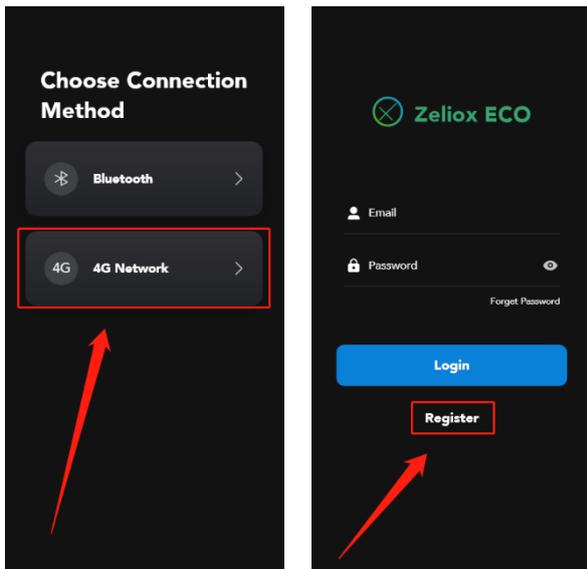
3.2 Open APP, allow location and Bluetooth access. Location information cannot be displayed if it is not allowed.



3.3 How to restore default settings? (When necessary)



3.4 Exit the app and go to the following page, choose “4G Network” and “Register”

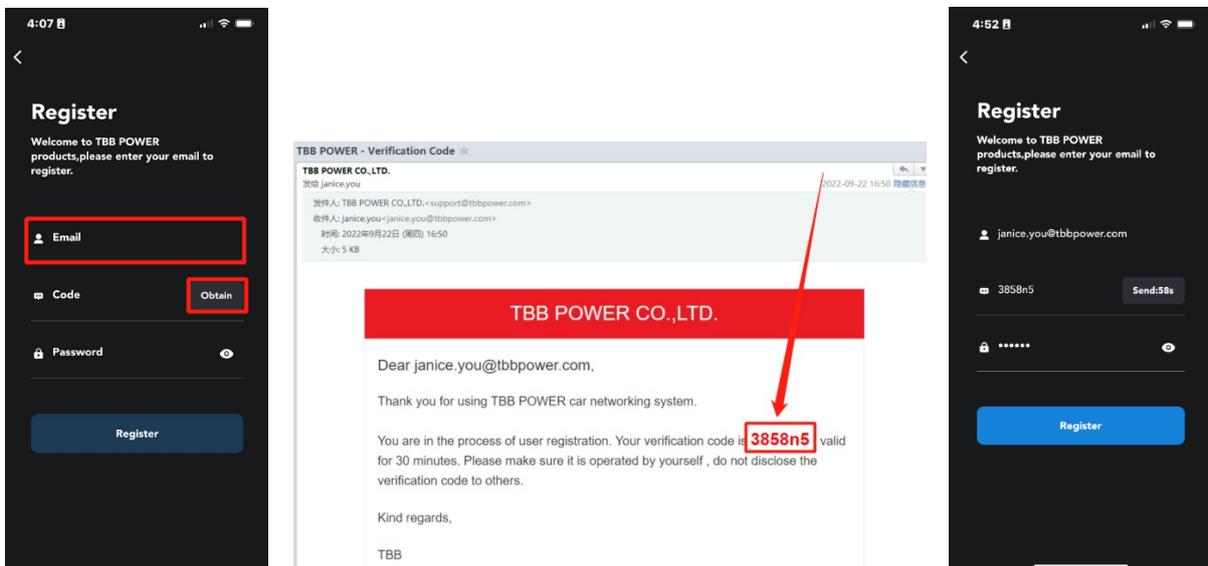


3.5 Enter your email correctly,

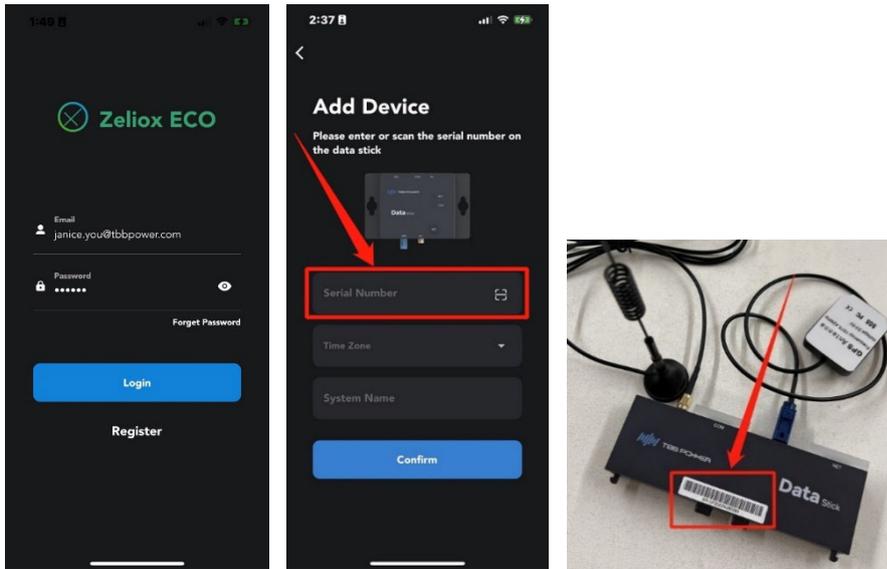
Click “Obtain”, go to the mailbox to receive the check code

Enter the verification code and password and click Register

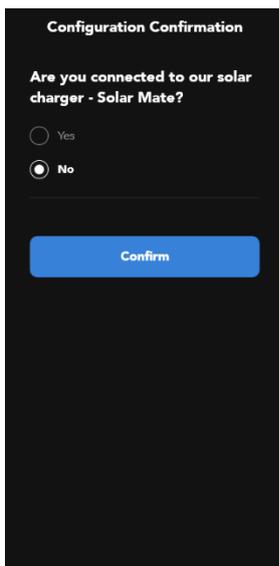
Note : Password input limit: 6 characters, numbers, upper- and lower-case letters, punctuation allowed



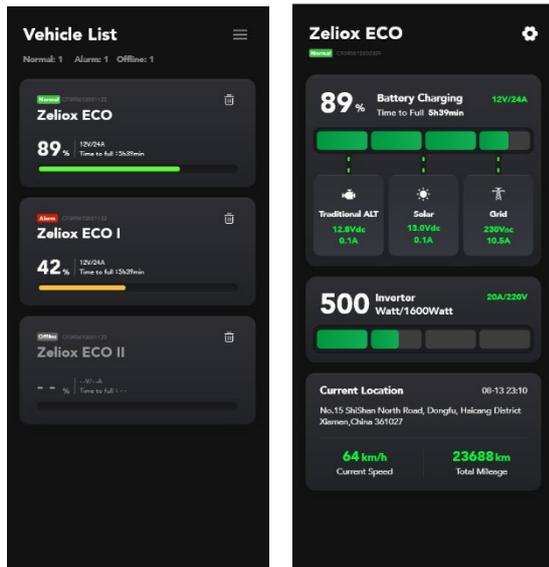
3.6 Go back to the login page and enter your email and password. Add a vehicle after login



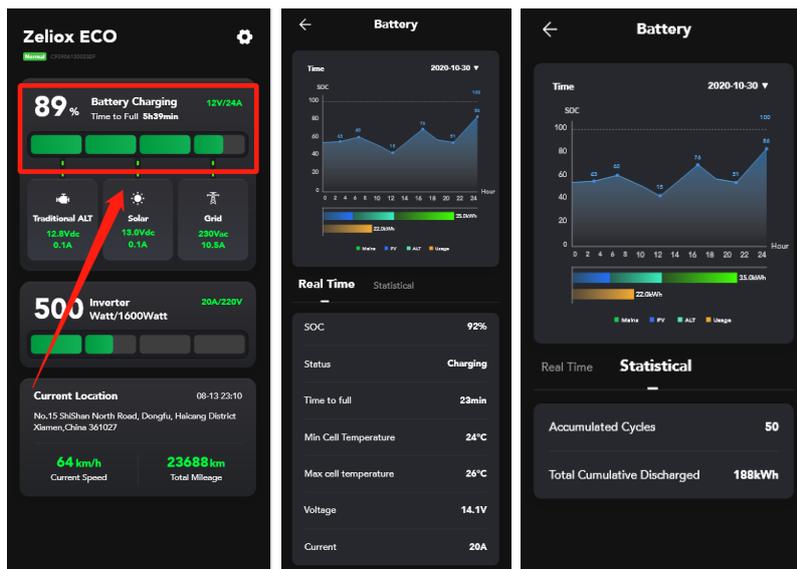
3.7 Please check if you are connected to our Solar Mate product, click “Confirm”



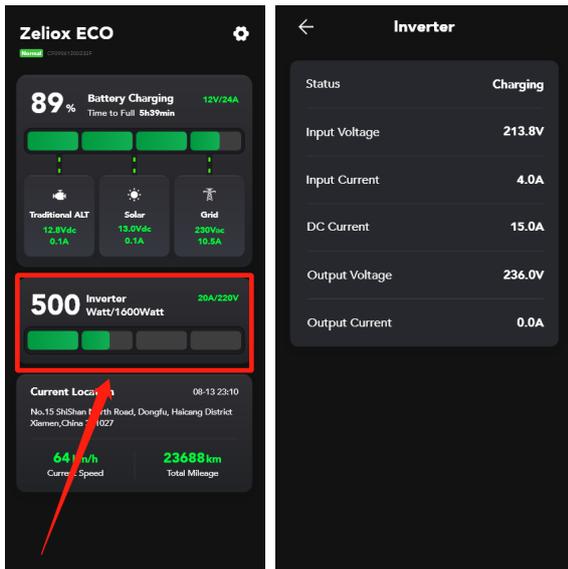
3.8 View device information after successful addition



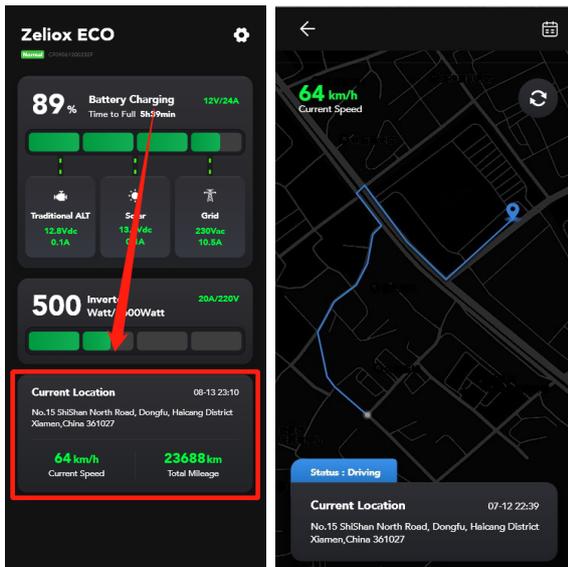
3.9 Click on the battery area on the home page to go to the battery details page.



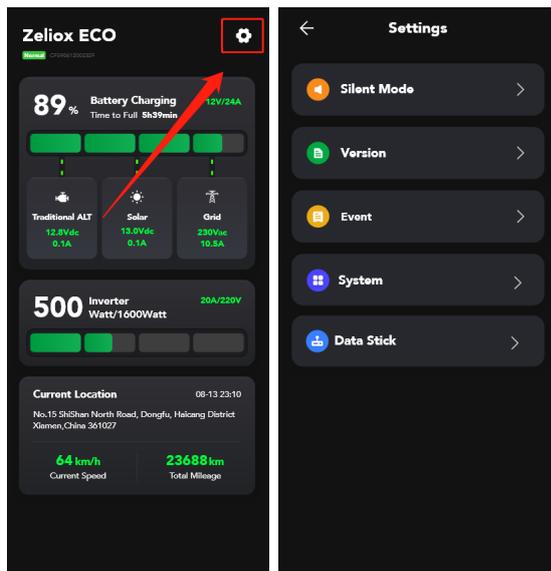
3.10 Click on the inverter area on the home page to go to the inverter details page.



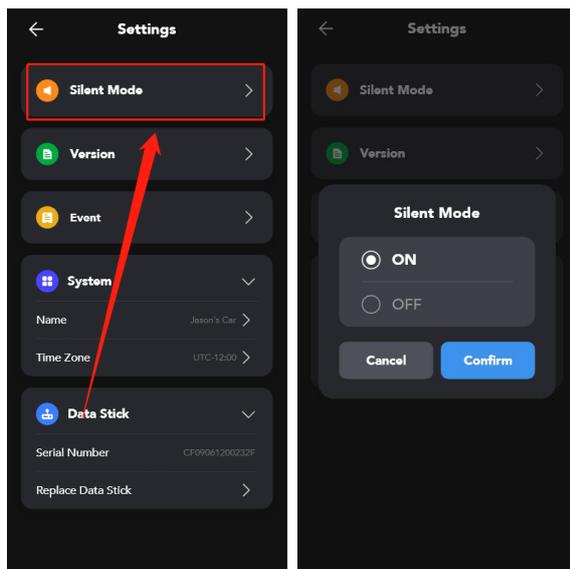
3.11 Click the Current Location area on the home page to go to the Current Location details page.



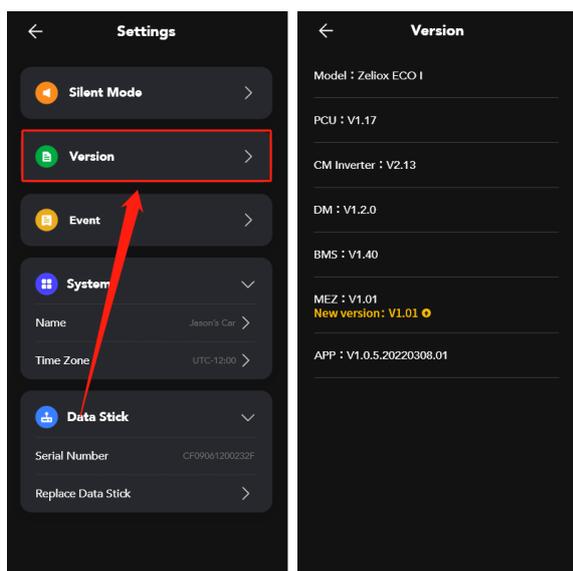
3.12 Click on the settings icon on the home page to go to the setting page.



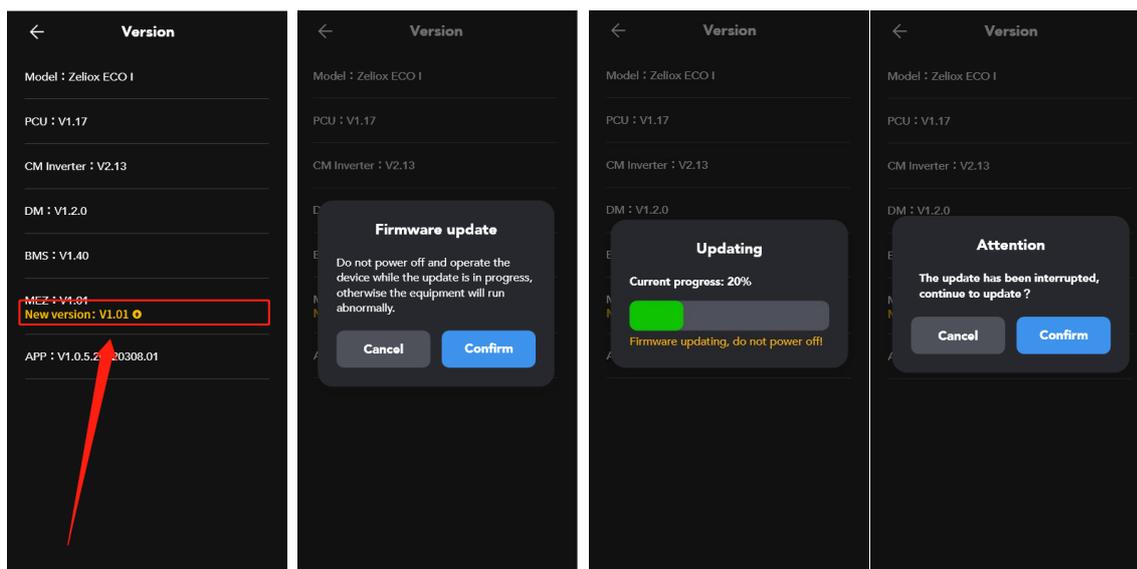
3.13 Click "Silent Mode" to set Silent Mode on or off

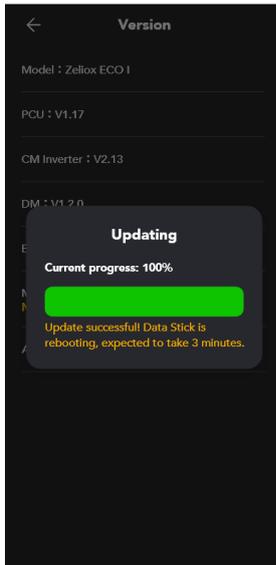


3.14 Click “Version”, view system software versions

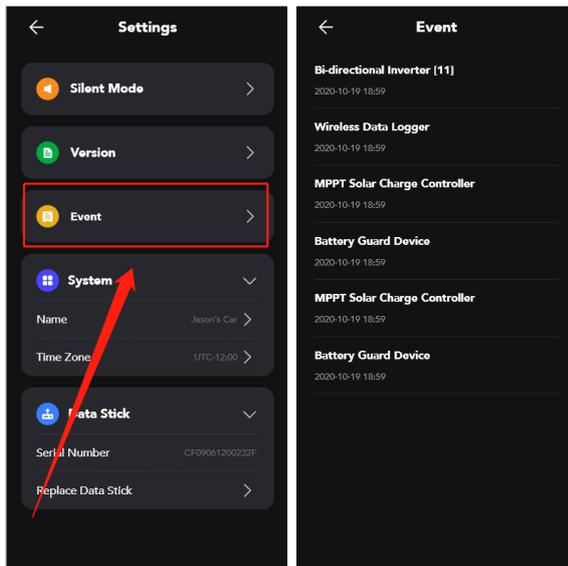


3.15 Click on the new version to upgrade your device, please note: Do not power off during the update process

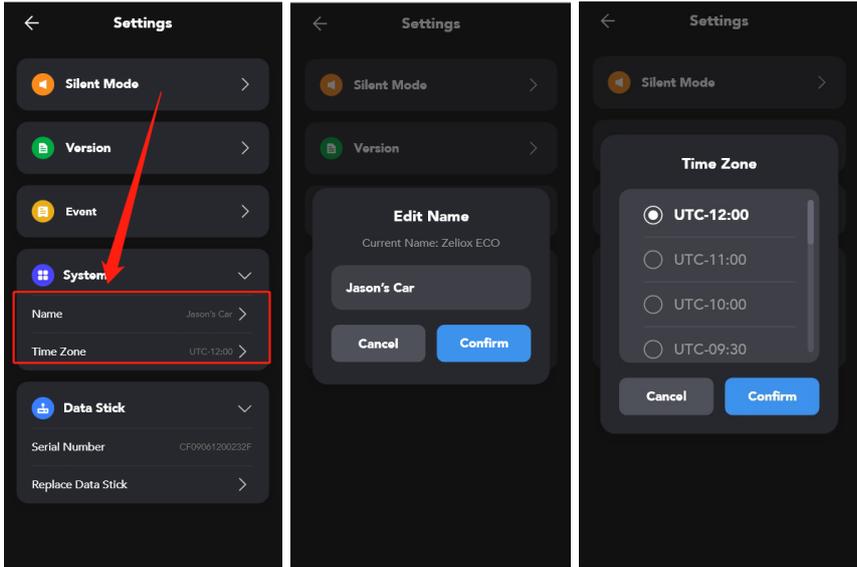




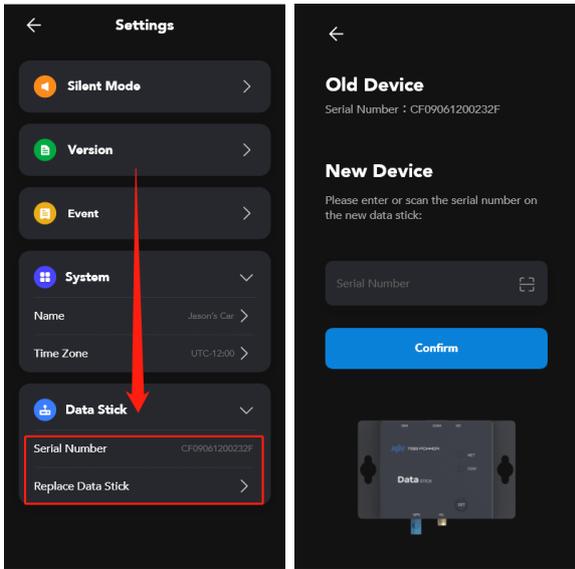
3.16 Click "Event", view system events.



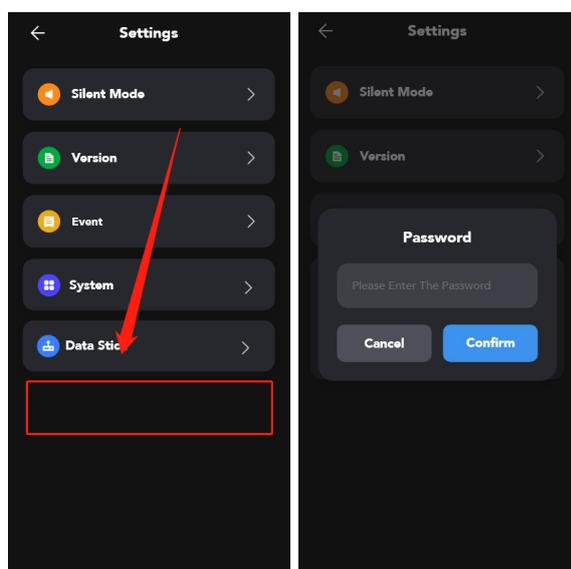
3.17 Click on "System", rename the system name or set the time zone.



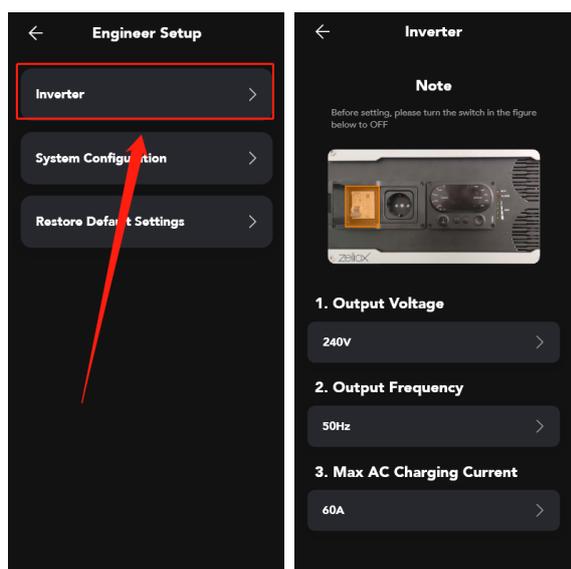
3.18 Click on “Data Stick”to view the serial number or choose to replace the device.



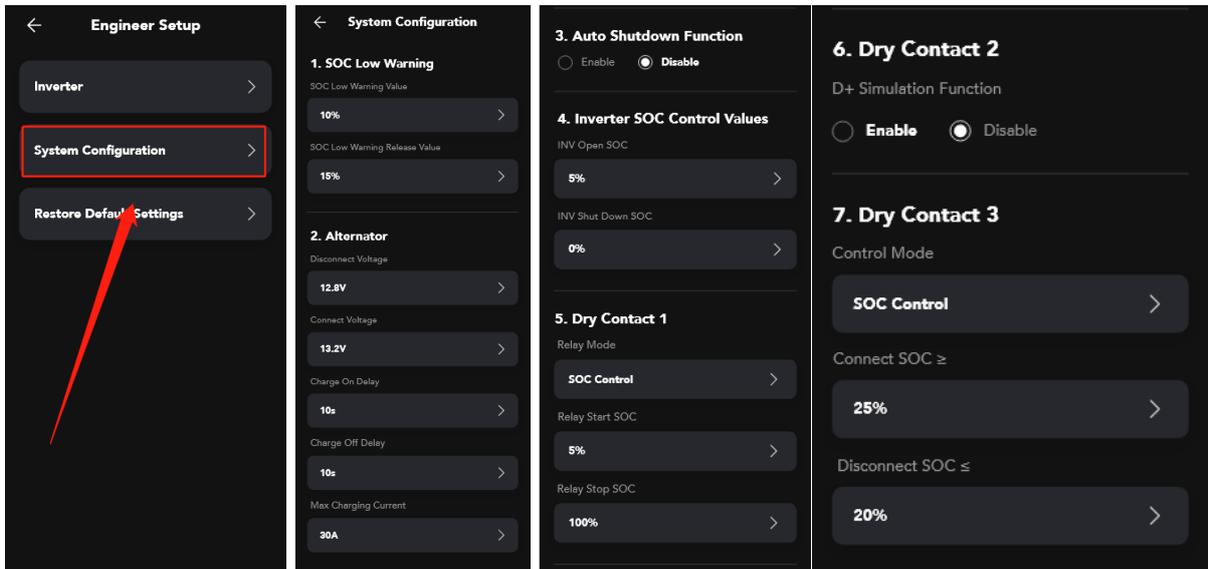
3.19 If you are a professional engineer, click on the area five times in a row and enter the correct password (password: 1000) to enter the engineer setup page.



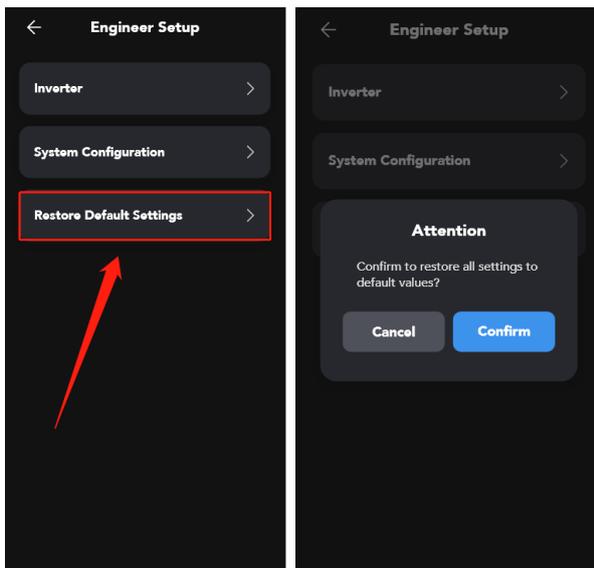
3.20 Click on Inverter on the Engineer Settings page to go to the Inverter settings page.



3.21 Click on System configuration on the Engineer Settings page to go to the Systemconfiguration page.



3.22 Click on “Restore Default Settings” on the Engineer Settings page to go to the Restore Default Settings page. Clicking "confirm" will restore the default settings.



4 Fault/alarm list

4.1 PCU centralized controller fault display

Fault code (displayed on APP)	How to solve
PCU : AC out Impedance abnormal protect[0000]	Check if there is a short circuit between neutral and earth wire or between live and earth wire.

4.2 PCU centralized controller alarm display

Alarm code (displayed on APP)	How to solve
PCU : Inverter Offline alarm[0080]	Check whether the internal communication wiring of the machine is normal. If there is still a fault, please contact the after-sales service.
PCU : Booster Charger Offline alarm[0081]	
PCU : BMS Offline alarm[0082]	
PCU : MPPT Charger Offline alarm[0084]	Check whether the MPPT settings on the APP are correct; Check whether the communication wiring between MPPT and ECO is normal. If there is still a fault, please contact the after-sales service.
PCU : Battery Low SOC alarm[0090]	The battery SOC is low, please charge it in time.
PCU : Internal abnormal alarm[0001]	Power off the machine and restart it, if there is still a fault, please contact the after-sales service.
PCU : Internal abnormal alarm[0002]	

4.3 BMS fault display

Fault code (displayed on APP)	How to solve
BMS : Battery Overvoltage protect[A001]	Please remove the external charger or reduce the charging voltage of the charger.
BMS : Battery Undervoltage protect[A002]	Please charge it in time.
BMS : Battery Over temperature protect[A003]	The battery temperature is too high, please wait for the battery to cool down; please move the machine to a well-ventilated place.
BMS : Battery Low temperature protect[A004]	The ambient temperature is too low, please connect to

	the charging source and wait for heating.
BMS : Battery Discharge Over current protect[A007]	The load is too large, please reduce the load.
BMS : Battery Charge Over current protect[A008]	Please remove the external charger or reduce the charging current of the external charger.
BMS : Internal abnormal protect[A00B]	Power off the machine and restart it, if there is still a fault, please contact the after-sales service.
BMS : Outside Overvoltage protect[A00E]	Please remove the external charger or reduce the charging voltage of the external charger.
BMS : Over temperature protect[A00F]	The battery temperature is too high, please wait for the battery to cool down; please move the machine to a well-ventilated place.

4.4 BMS alarm display

Alarm code (displayed on APP)	How to solve
BMS : Battery Overvoltage alarm[A081]	Please remove the external charger or reduce the charging voltage of the charger.
BMS : Battery Undervoltage alarm[A082]	Please charge it in time.
BMS : Battery Discharge Over temperature alarm[A083]	The battery temperature is too high, please wait for the battery to cool down; please move the machine to a well-ventilated place.
BMS : Battery Discharge Low temperature alarm[A084]	The ambient temperature is too low, please connect to the charging source and wait for heating.
BMS : Battery Discharge Over current alarm[A087]	The load is too large, please reduce the load.
BMS : Battery Charge Over current alarm[A088]	Please remove the external charger or reduce the charging current of the external charger.
BMS : Internal abnormal alarm[A08B]	Please check the internal communication cable.
BMS : Battery Charge Over temperature alarm[A08D]	The battery temperature is too high, please wait for the battery to cool down;

	please move the machine to a well-ventilated place.
BMS : Battery Charge Low temperature alarm[A08E]	The ambient temperature is too low, please connect to the charging source and wait for heating.
BMS : Over temperature alarm[A08F]	The battery temperature is too high, please wait for the battery to cool down; please move the machine to a well-ventilated place.

4.5 Inverter fault display

Fault code (displayed on APP)	How to solve
Inverter : Internal abnormal protect[1003]	Power off the machine and restart it, if there is still a fault, please contact the after-sales service.
Inverter : Internal abnormal protect[1006]	
Inverter : Internal abnormal protect[1007]	
Inverter : Internal abnormal protect[100F]	
Inverter : Internal abnormal protect[100A]	Check the ventilation of the machine and whether the fan is working normally.
Inverter : Over temperature protect[1004]	1. Check the ventilation of the machine and whether the fan is working normally. 2. The ambient temperature is too high.
Inverter : Over temperature protect[1005]	
Inverter : AC Output ShortCutprotect[1008]	Check whether there is a load short circuit in the AC output circuit.
Inverter : AC Output over load protect[1009]	The AC load is too heavy, please reduce the load.
Inverter : AC Output low voltage protect[100C]	Check whether there is a load short circuit in the AC output circuit. Power off the machine and restart, if there is still a fault, please contact the after-sales service.
Inverter : AC Output over current protect[100D]	Check whether there is a load short circuit in the AC output circuit. The AC load is too heavy, please reduce the load.

4.6 Inverter alarm display

Alarm code (displayed on APP)	How to solve
Inverter : AC Output over load alarm[1083]	Reduce AC output load.
Inverter : Internal abnormal alarm[1084]	Completely turn off the machine, open the cover to check the connection of the internal temperature sensor, and then turn it on again. If there is still a fault, please contact the after-sales service.
Inverter : Internal abnormal alarm[1085]	
Inverter : Internal abnormal alarm[1087]	Completely turn off the machine, open the cover to check the internal fan connection, and then turn it on again. If there is still a fault, please contact the after-sales service.
Inverter : Internal abnormal alarm[108D]	Check inverter parameter settings (Lithium battery, AC couple)
Inverter : Internal abnormal alarm[108F]	Completely turn off the machine, check the internal connection cables, and turn it on again. If there is still a fault, please contact the after-sales service.
Inverter : AC input abnormal alarm [1090]	Check the AC input source and connections.
Inverter : AC input abnormal alarm [1091]	
Inverter : AC input abnormal alarm [1092]	
Inverter : AC input abnormal alarm [1093]	
Inverter : AC input abnormal alarm [1094]	
Inverter : AC input abnormal alarm [1095]	Check the AC input neutral wire, live wire and ground wire connection.

4.7 MPPT solar charge controller fault display

Fault code (displayed on APP)	How to solve
MPPT Charger : PV Input over voltage protect[4000]	Check PV input voltage and connection.
MPPT Charger : Output over current protect[4004]	Check whether the MPPT charger output connection is short-circuited.
MPPT Charger : Output over current protect[4005]	

MPPT Charger : Over temperature protect[4006]	The ambient temperature is too high, please place the MPPT charger in a well-ventilated environment.
MPPT Charger : Over temperature protect[4007]	
MPPT Charger : Internal abnormal protect[4008]	Power off the MPPT charger and restart it. If there is still a problem, please contact the after-sales service.
MPPT Charger : Internal abnormal protect[4009]	
MPPT Charger : Internal abnormal protect[400A]	
MPPT Charger : Internal abnormal protect[400B]	
MPPT Charger : Remote OFF protect[400C]	Check whether the EPO dry contact (Remote OFF) of the MPPT charger is disconnected.

4.8 MPPT solar charge controller alarm display

Alarm code (displayed on APP)	How to solve
MPPT Charger : Output over current alarm[4082]	Check whether the MPPT charger output connection is short-circuited.
MPPT Charger : Battery Disconnect alarm[4083]	Check the connection between the output of the MPPT charger and the ECO
MPPT Charger : Internal abnormal alarm[4084]	Check the connection of the temperature sensor inside the MPPT charger, and then power it on again. If there is still a fault, please contact the after-sales service.
MPPT Charger : Internal abnormal alarm[4086]	Completely power off the MPPT charger, open the cover to check the connection of the internal fan, and then power it on again. If there is still a fault, please contact the after-sales service.
MPPT Charger : Internal abnormal alarm[4089]	Completely power off the MPPT charger, check the internal connection cables, and then power it on again. If there is still a fault, please contact the after-sales service.
MPPT Charger : Internal abnormal alarm[408D]	Check the connection of the internal temperature sensor of the MPPT, and then power on again. If there is still a fault, please contact the after-sales service.

MPPT Charger : Abnormal communication alarm[4088]	Check the communication cable between MPPT charger and ECO.
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4.9 Booster Charger fault display

Fault code (displayed on APP)	How to solve
Booster Charger1 : ALT Input over voltage protect[9002]	Check alternator input voltage and connections.
Booster Charger1 : ALT Input over voltage protect[9003]	
Booster Charger1 : Output over current protect[9005]	Power off the machine and restart, if there is still a fault, please contact the after-sales service.
Booster Charger1 : Output over current protect[9006]	
Booster Charger1 : Over temperature protect[9007]	1. Check the ventilation of the machine; 2, The ambient temperature is too high, put it in a place with a lower temperature.
Booster Charger1 : Over temperature protect[9008]	
Booster Charger1 : Low temperature protect[9009]	Power off the machine and restart, if there is still a fault, please contact the after-sales service.
Booster Charger1 : Internal abnormal protect[900A]	Power off the machine and restart, if there is still a fault, please contact the after-sales service.
Booster Charger1 : Internal abnormal protect[900B]	
Booster Charger1 : Internal abnormal protect[900C]	

4.10 Booster Charger alarm display

Alarm code (displayed on APP)	How to solve
Booster Charger1 : ALT Input over voltage alarm[9082]	Check alternator input voltage and connections.
Booster Charger1 : ALT Input low voltage alarm[9083]	
Booster Charger1 : Output over current alarm[9084]	Power off the machine and restart, if there is still a fault, please contact the after-sales service.
Booster Charger1 : Output over current alarm[9085]	
Booster Charger1 : Abnormal communication alarm[9087]	Check the internal communication cable, if there is still a problem, please contact the after-sales service.
Booster Charger1 : Abnormal communication alarm[9088]	

Booster Charger1 : Internal abnormal alarm[908D]	Power off the machine and restart, if there is still a fault, please contact the after-sales service.
Booster Charger1 : Over temperature alarm[908E]	Please check the ambient temperature around the machine.
Booster Charger1 : Low temperature alarm[908F]	



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