APP Instructions



ELS SERIES

Residential Hybrid Inverter

ELS3K, ELS3K6, ELS4K, ELS4K6, ELS5K, ELS6K

EN

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1 Download APP

Add the WiFi adapter and the connected device to the cloud server by website (https://www.valueclouds.com) or APP. Then you will be able to monitor the device and set parameters by PC or APP.

SmartValue



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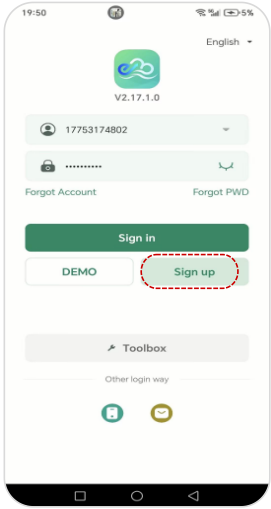
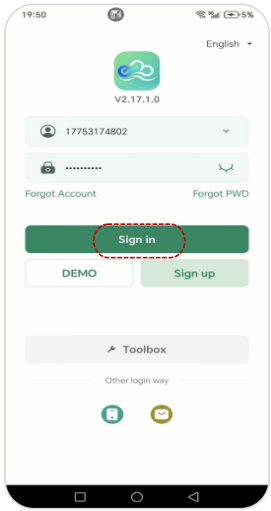
2 Registration and Login



1. Sign up

Download the APP and open it, click the "Sign up" icon. Input the telephone number/user name/email, verification code, and password, and then select the user type from the drop-down box. Tick to agree with the privacy agreement and click the "Sign Up."



2. Sign in

After registering, return to the APP. Input the telephone number/user name/email, and click the "Sign in" button to enter the APP.

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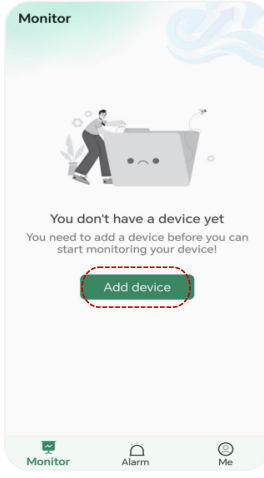
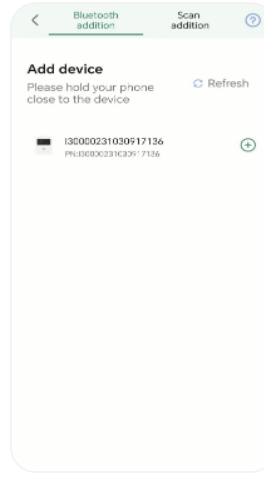
3 Add Devices



1. After signing in, enter the "Monitor" page, and click "Add device" to enter "Bluetooth addition" and “Scan addition” pages.



2. Select “Bluetooth addition”, turn on the Bluetooth permission of your mobile phone, and get close to the device so that it can search for the corresponding device. Then click the "+" icon to add it. Otherwise, click "Refresh".

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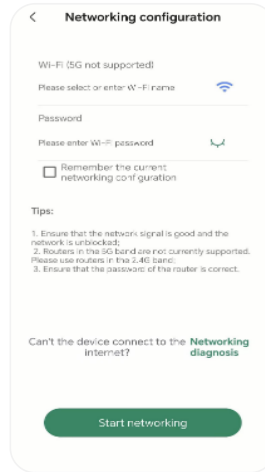
3. You can rename the device and communication address. Then click “Confirm” button and the interface will automatically turn to “Monitor” page.



4. Turn on WiFi switch on your mobile phone, and get close to the WiFi stick. Search for and select a nearby WiFi with good signal, enter the correct WiFi name and password, click “Start networking” and wait for the connection. (The same process as scanning the QR code.)

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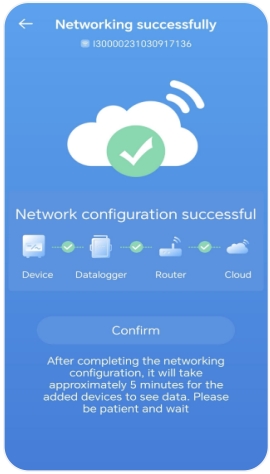

5. Wait for the network configuration. If the configuration is successful, click "Confirm" and return to the home page of the APP. If it is unsuccessful, repeat the above steps. (The same process as scanning the QR code.)



6. Select “Scan addition”, and first insert the WiFi stick into the “WIFI/GPRS” port on the device. Turn on mobile phone's scanning function and scan the QR code on the WiFi stick to add the device.

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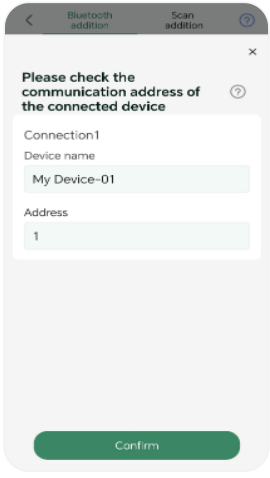
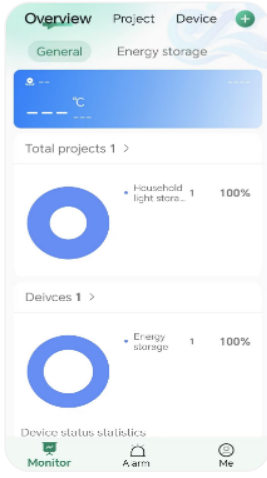


7. Click "Confirm" button and the interface will automatically turn to “Monitor” page. Click “Done” to finish device addition and enter the device selection page. You can rename the device and communication address here.



8. Check “General” information and “Energy storage” information on the “Overview” page.

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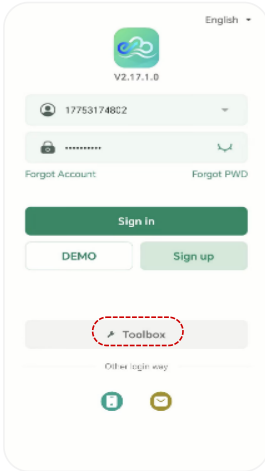
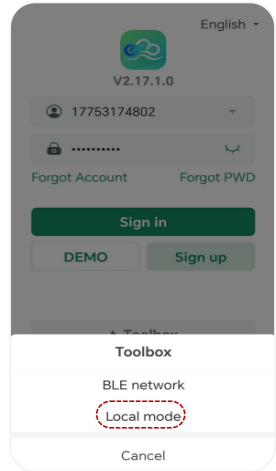
4 Local Monitoring



1. Click the "Toolbox" button on the home page.



2. Select “Local mode” to enter “Ble pair” page.

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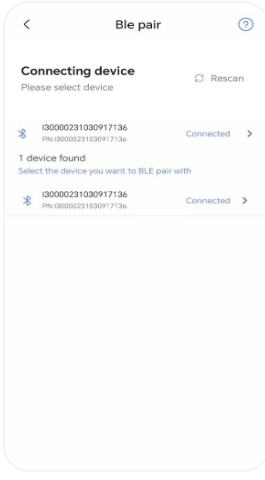
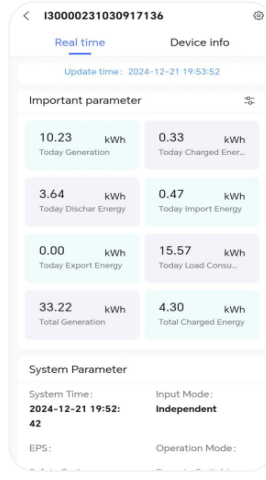


3. Wait for 1 to 3 minutes to search for nearby devices. Select the device you want to connect to and click on it to enter the device detail interface. If the connection is not successful, click "Rescan".



4. After the above steps, enter the “Real time” page. Wait for 1 minute for data refresh. It contains system information, device information, energy data, PV data, battery data, grid data, and load data.

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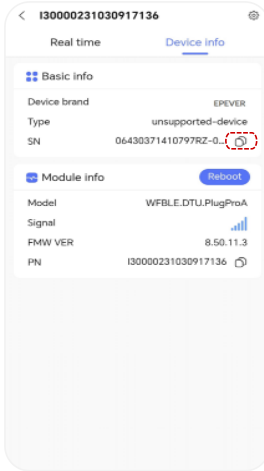

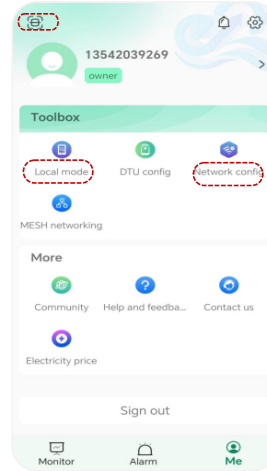

5. On the device information page, wait for one minute until the data is refreshed. The bottom right key is "Copy".

6. Return to the home page and click on “Me” at the bottom right. You can also access local monitoring, network configuration, and adding devices by scanning the QR code.

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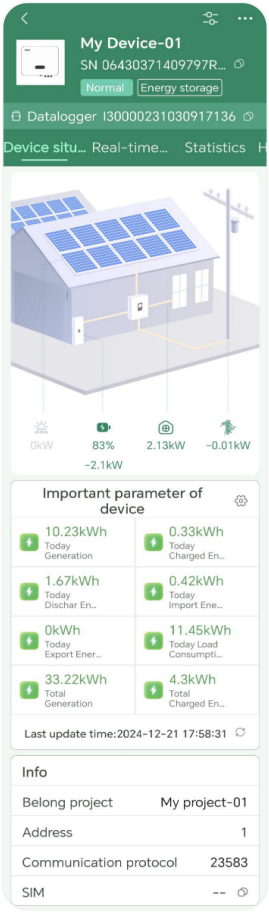
5 Device Situation



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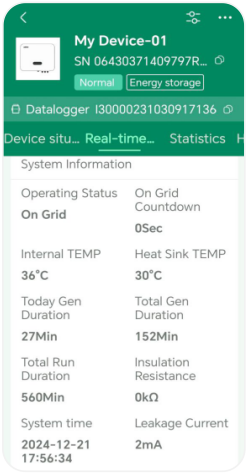
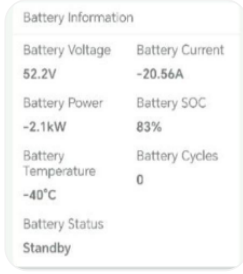
6 Real-time Data















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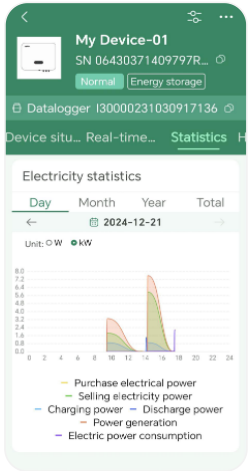
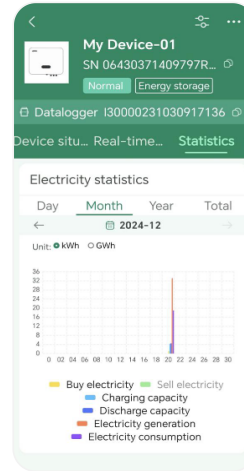
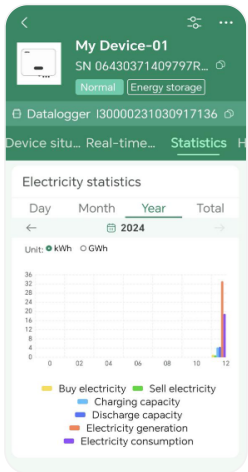
7 Data Statistics



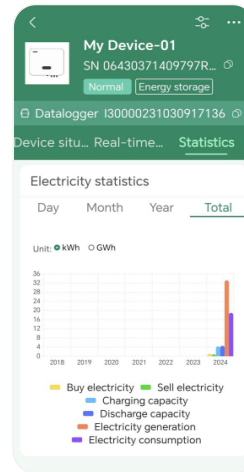
Day



Month



Year



Total

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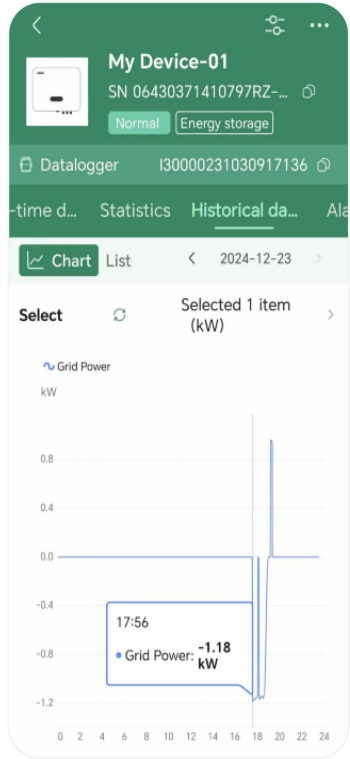
8 Historical Data



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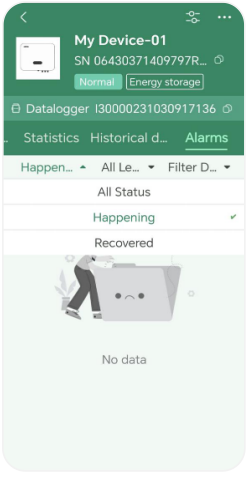
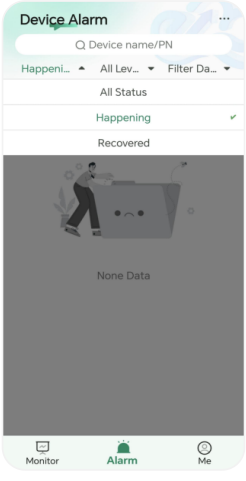
9 Device Alarm

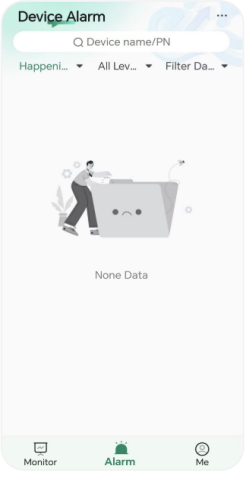
Real-time Alarm



Alarm Level



Alarm Date



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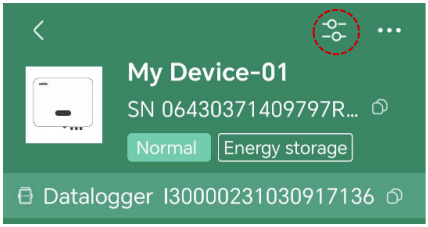
10 Parameter Setting

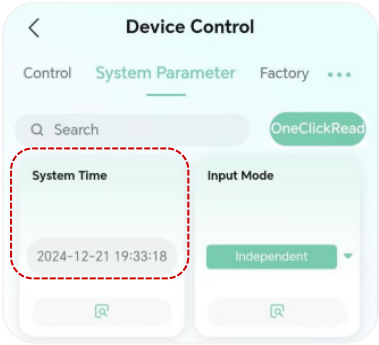


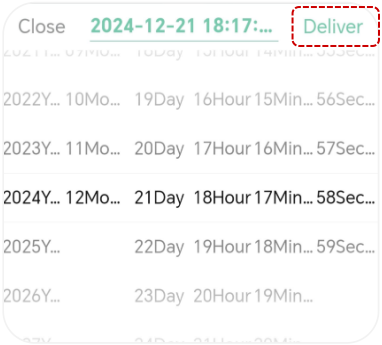
Click the setting button to enter the parameter setting interface.

10.1 System Parameter

10.1.1 System time

Select the corresponding time based on local time and deliver. It is recommended to calibrate the time on a monthly basis.





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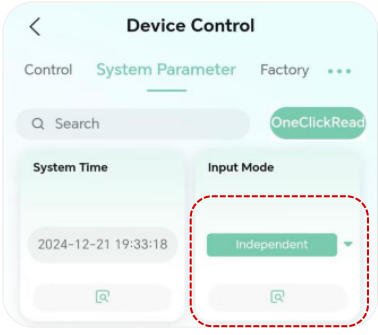
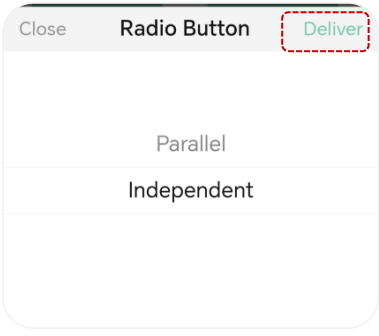
10.1.2 PV Input Mode

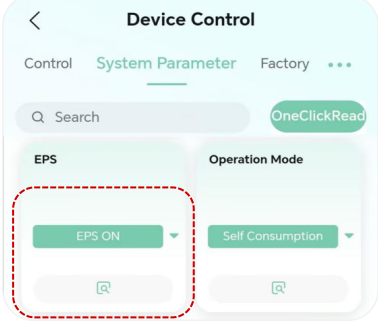
Since the inverter is designed with two PV input terminals, select the "Input Mode" as "Parallel" or "Independent" according to the connection method between the PV array and the inverter. And then, deliver the new setting.

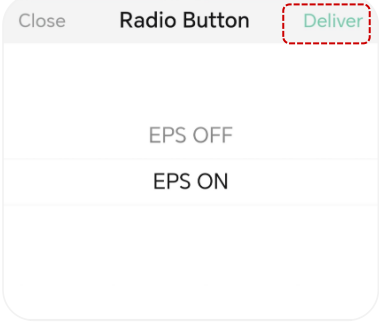




10.1.3 EPS Control

Enable this parameter to realize the function of an uninterrupted power supply (UPS). The battery will supply power to the load during the absence of the grid. Set the parameter "EPS" as "Enable" and click "One Click Send".





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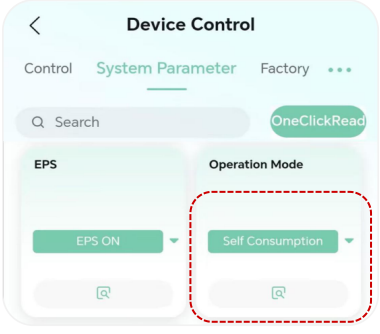
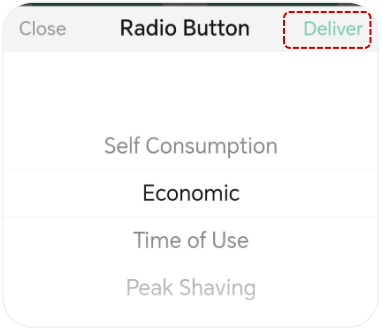
10.1.4 Operation Mode

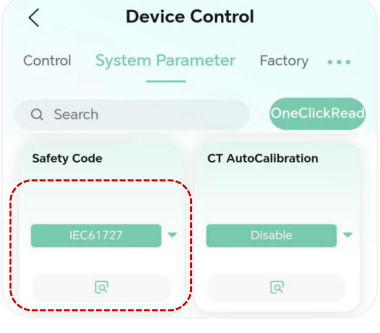
Operation modes include Time of Use, Economic, Self Consumption, and Peak Shaving; select the operation mode based on user's actual needs and deliver the new setting.

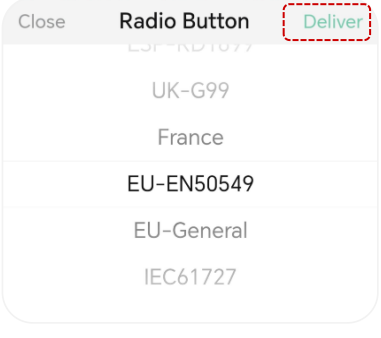




10.1.5 Safety Code

Select the corresponding safety code based on local grid connection requirements, and then, apply the new setting.





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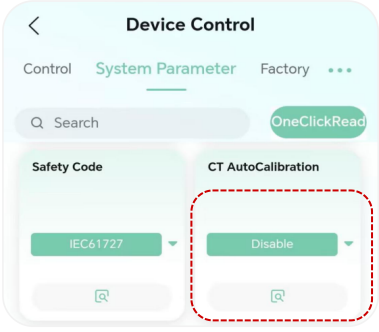
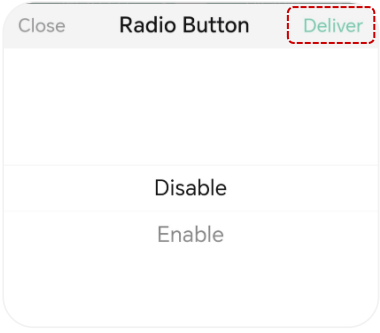
10.1.6 CT AutoCalibration

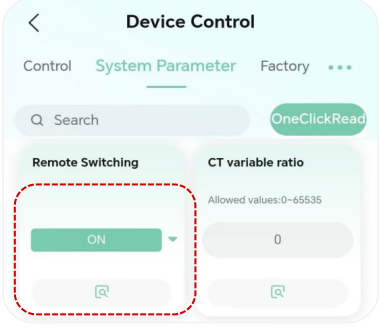
Select “Disable” when the CT is installed in the normal direction, and select “Enable” when the CT is installed in the reverse direction.

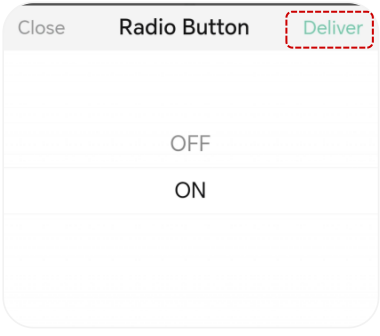




10.1.7 Remote Switching

Users can remotely control the power on/off and select to deliver the new setting according to actual needs.





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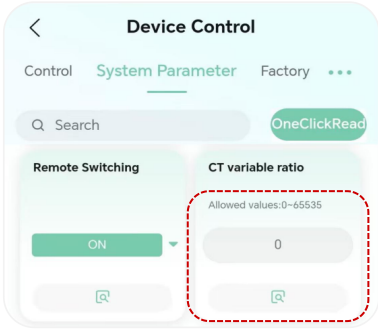
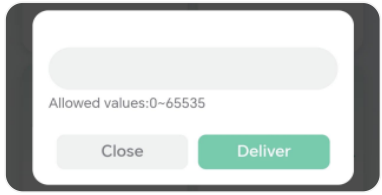
10.1.8 CT variable ratio

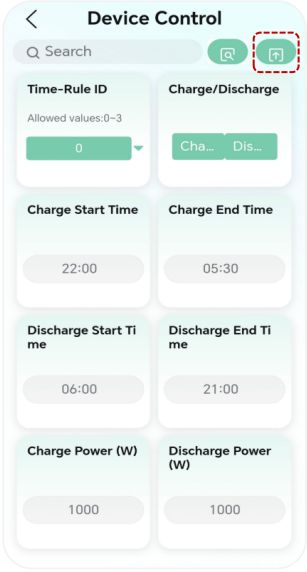
Set according to the transformation ratio of the selected CT and then deliver the new setting.





10.2 Batched setting

10.2.1 Time of Use Mode



When the operation mode is selected as "Time of Use" mode, related parameter settings are required. Users set the corresponding charging time period and charging power, or discharging time period and discharging power according to the actual needs, and the device allows the setting of multiple time period rules. Set the corresponding parameters and click "One Click Send". It is recommended to calibrate the time on a monthly basis.

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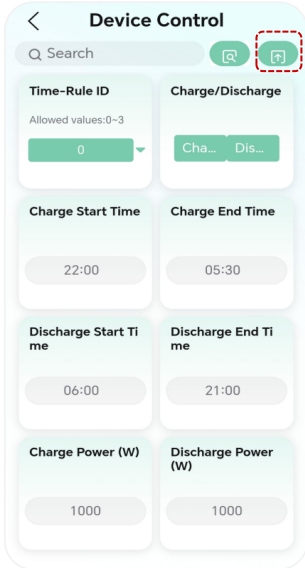
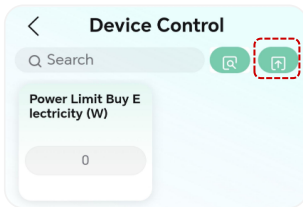
10.2.2 Economic Mode



When the operation mode is selected as "Economic" mode, related parameter settings are required. The user sets the corresponding date, charging start time, charging end time, charging power, and charging cutoff SOC based on their needs, and the device allows the setting of multiple rules. Set the corresponding parameters and click "One Click Send". It is recommended to calibrate the time on a monthly basis.

10.2.3 Peak Shaving Mode



When the operation mode is selected as "Peak Shaving" mode, related parameter settings are required. User sets the peak shaving power according to their needs, namely, the upper limit of power allowed to buy from the grid or sale to the grid. Set the power limit buy/sale electricity and click "One Click Send".

10.2.4 Feed-in Power Control

Enable the feed-in power control and set the feed-in power and feed-in overload protection before

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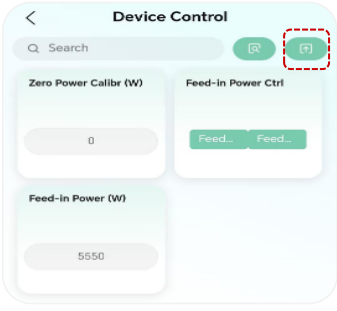
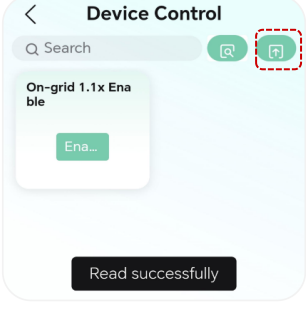
using this function. And then, click "One Click Send".



10.2.5 On-grid 1.1 × Enable



10.2.6 Battery Configuration

Users need to set appropriate parameters based on their specific battery, including setting the over voltage, charge voltage, under voltage, low voltage, and rated battery voltage, as well as the maximum charge current limit, maximum discharge current limit, battery capacity, and battery type.

Set the battery model according to the battery BMS protocol.

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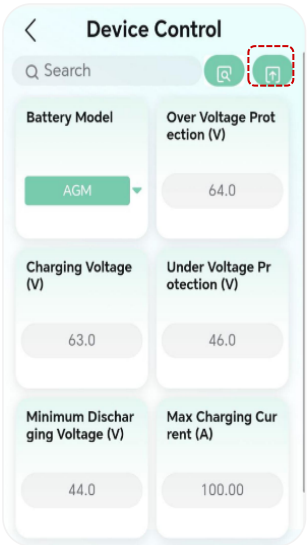
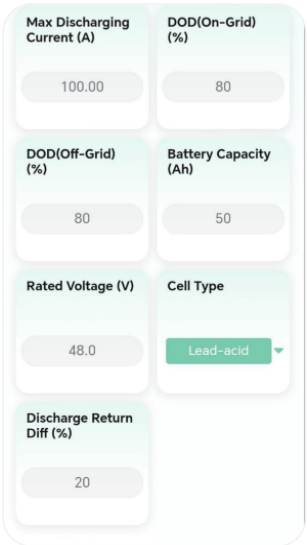
The "DOD (On-Grid)" represents the maximum discharge depth of the battery when connected to the grid. For example, if the "DOD (On-Grid)" is set to 80%, it means the battery will stop discharging when the battery SOC drops to 20%.

The "DOD (Off-Grid)" represents the maximum discharge depth of the battery when there is no grid power. For example, if the "DOD (Off-Grid)" is set to 80%, it means the battery stops discharging when the battery SOC drops to 20%.

The "Discharge ReturnDiff" indicates the threshold for resuming battery discharge. For example, if the "DOD (Off-Grid)" is set to 80%, and the "Discharge ReturnDiff" is set to 20%, it means the battery stops discharging when the battery SOC drops to 20%, and resumes discharging when the battery SOC is charged back up to 40%. Set the corresponding parameters and click "One Click Send".





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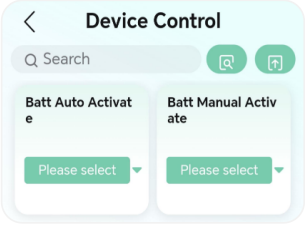
10.2.7 Activating Battery

When a battery BMS communication error occurs due to severe insufficient voltage, it needs to activate the battery by the following settings. Set "Batt Auto Activate" to "Enable", and set "Batt Manual Activate" to "Enable", then click "One Click Send".



10.2.8 Parallel Control

When using a parallel system, it is necessary to enable the parallel control. Select one inverter as the master unit, and the others as slaves, ensuring that each inverter has a unique address. After setting the parameters, click "One Click Send".



10.2.9 Buzzer

Set the alarm prompt according to customer requirements. If a buzzer reminder is needed, choose to enable and deliver the setting. If a buzzer reminder is not needed, choose to disable and deliver

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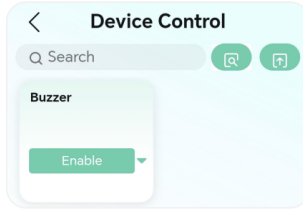
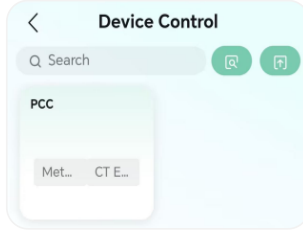
the setting.



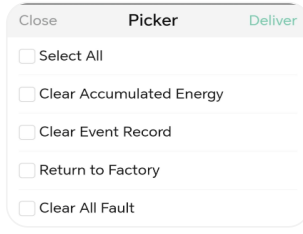
10.2.10 PCC Electric Meter

When users select an electric meter for grid monitoring, select the "PCC Electric Meter" as "Enable". And then, deliver the new setting.



10.3 Factory Data Reset

"Factory Data Reset" includes “clear accumulated energy, return to factory settings, and clear event record.”



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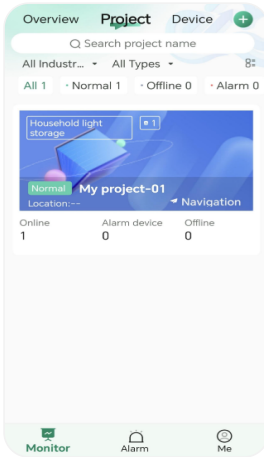
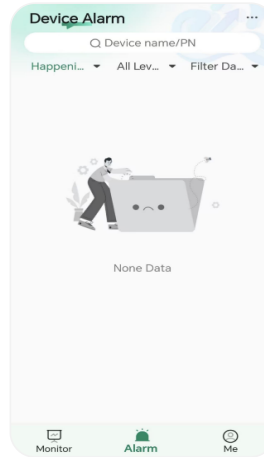
11 Project Device and Alarm

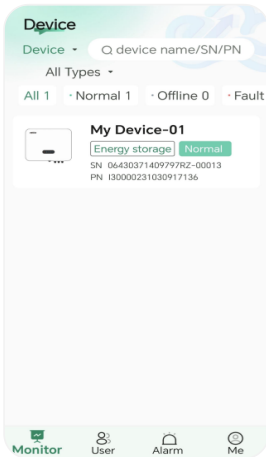
Project Monitoring



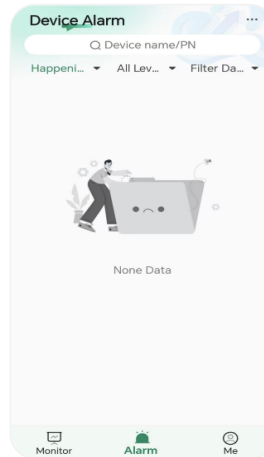
Project Alarm



Device



Alarm



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