



# SolarGo App User Manual

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**NOTICE**

The information in this user manual is subject to change due to product updates or other reasons. This guide cannot replace the product labels or the safety precautions in the user manual unless otherwise specified. All descriptions in the manual are for guidance only.

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# 1 About This Manual




- This manual introduces commonly used operations in SolarGo App
- Before setting any parameters, read through the app and the inverter user manual to learn the product functions and features. When the inverter parameters are set improperly, the inverter may fail to connect to the utility grid or fail to connect to the utility grid according to related requirements and damage the battery, which will affect the inverter's power generation.
- This manual is subject to update without notice. For more product details and latest documents, visit <https://www.gesolarinverter.com/>.

## 1.1 Target Audience

This manual applies to trained and knowledgeable technical professionals. The technical personnel has to be familiar with the product, local standards, and electric systems.

## 1.2 Symbol Definition

Different levels of warning messages in this manual are defined as follows:

|  |
|--|
|  <b>DANGER</b>                |
| Indicates a high-level hazard that, if not avoided, will result in death or serious injury.                    |
|  <b>WARNING</b>               |
| Indicates a medium-level hazard that, if not avoided, could result in death or serious injury.                 |
|  <b>CAUTION</b>               |
| Indicates a low-level hazard that, if not avoided, could result in minor or moderate injury.                   |
| <b>NOTICE</b>  |
| Highlight and supplement the texts. Or some skills and methods to solve product-related problems to save time. |

## 1.3 Updates

The latest document contains all the updates made in earlier issues.

### V1.0 2022-03-02

- First Issue

### V1.1 2022-03-02

- Updated [3.2 Setting the Basic Information \(Owner/Installer\)](#).

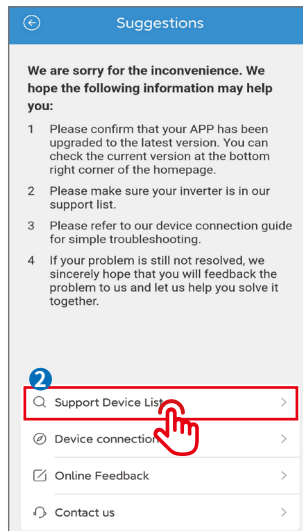
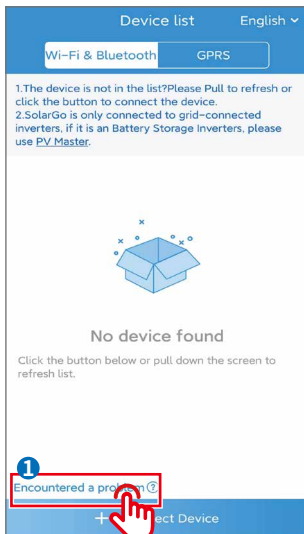
## 2 Product Introduction

SolarGo App is a mobile application that communicates with the inverter via Bluetooth module, WIFI module or GPRS module. Commonly used functions are as follows:

1. Check the operating data, software version, alarms, etc.
2. Set grid parameters, communication parameters, etc.
3. Equipment maintenance.

### 2.1 Applicable Inverter Model

Enter the equipment SN to check whether the inverter can be connected to SolarGo App.



### 2.2 Downloading and Installing the App

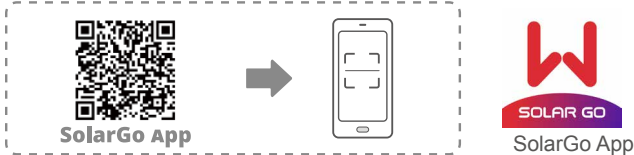
**Make sure that the mobile phone meets the following requirements:**

- Mobile phone operating system: Android 4.3 or later, iOS 9.0 or later.
- The mobile phone can access the Internet.
- The mobile phone supports WLAN or Bluetooth.

Method 1: Search SolarGo in Google Play (Android) or App Store (iOS) to download and install the app.



Method 2: Scan the QR code below to download and install the app.

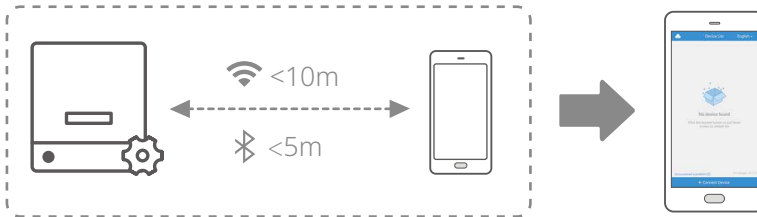


### NOTICE

After installing the app, it can automatically prompt users to update the app version.

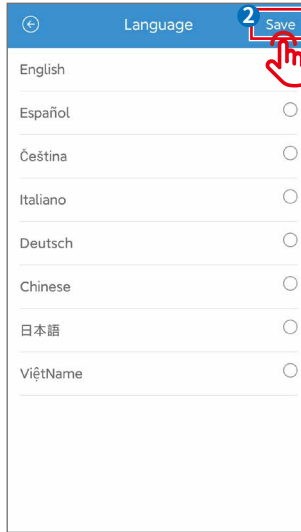
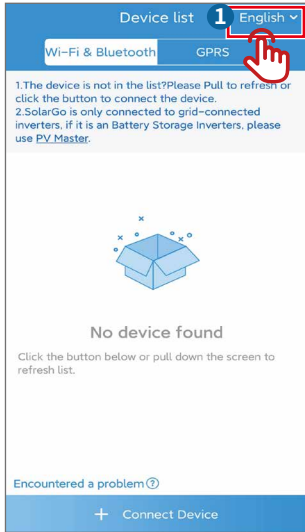
## 2.3 App Connection

After the DC side of the inverter is powered on, the app can connect to the inverter. Connect as the following shows.



## 2.4 Setting Language

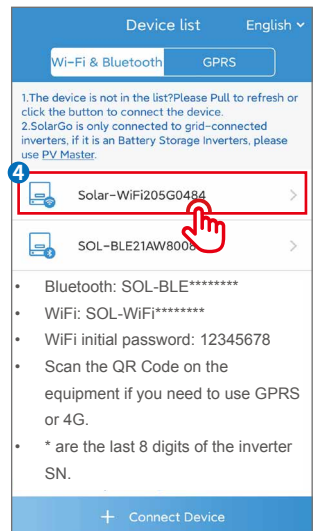
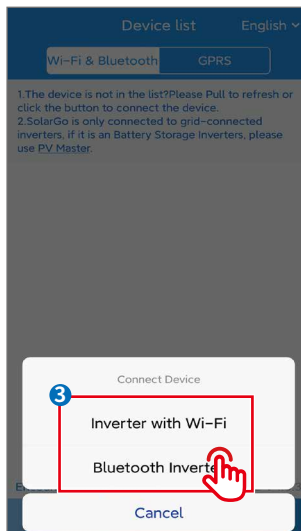
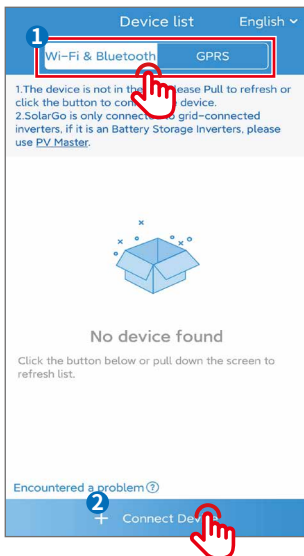
**Step 1** Select the language based on the actual need.



## 2.5 Log In

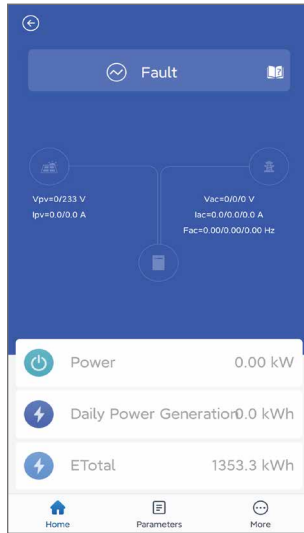
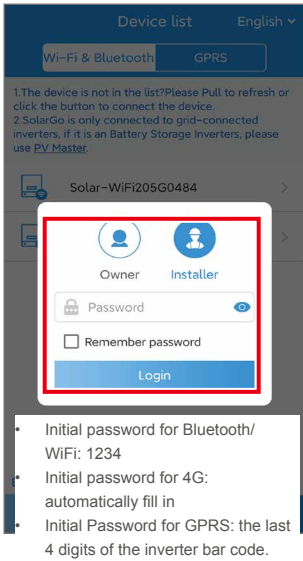
**Step 1** Select the connection method based on the communication module type.

1. Tap **WiFi & Bluetooth** when WiFi, LAN, or Bluetooth module is used.
2. Tap **GPRS** when GPRS or 4G module is used.





## Step 2 Log in as an Owner or an Installer.

**NOTICE**

Log in using the initial password for the first time and change the password as soon as possible. To ensure account security, you are advised to change the password periodically and keep the new password in mind.

## 3 App Operations

### NOTICE

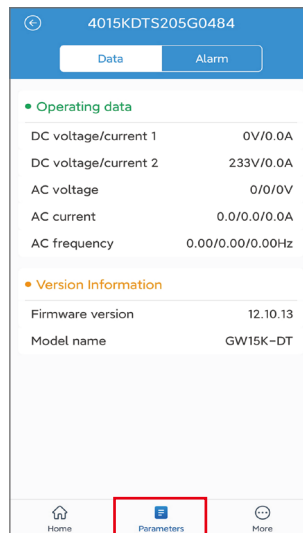
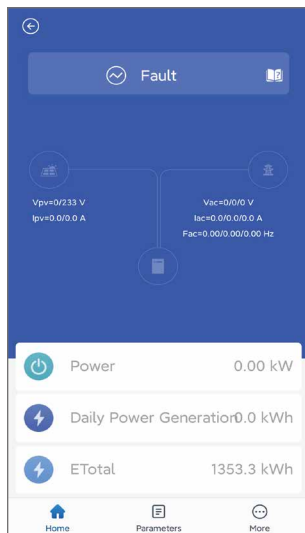
- All the user interface (UI) screenshots in this document are based on SolarGo App V4.0.2. The UI may be different due to the version upgrade. The data on the UI screenshots is for reference only.
- The method to set parameters is the same for all inverters. But the parameters displayed will be different based on the inverter model.
- Before setting any parameters, read through the app and the inverter user manual to learn the product functions and features. When the inverter parameters are set improperly, or send any grid command to the inverter, the inverter may fail to connect to the utility grid or fail to connect to the utility grid according to related requirements and damage the battery, which will affect the inverter's power generation.

### 3.1 Checking Information (Owner/Installer)

#### 3.1.1 Checking Operating Data

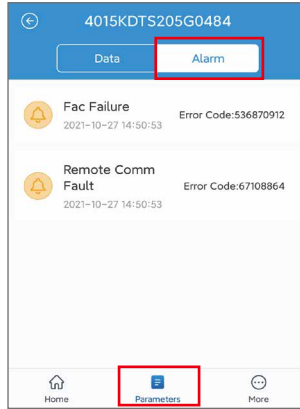
**Step 1:** Check the Power and Power Generation on the Home page after logging in.

**Step 2:** Tap **Home** > **Parameters** to check the real-time operating data.



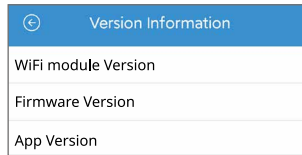
### 3.1.2 Checking Alarm

**Step 1** Tap **Home** > **Parameters** > **Alarm** to check the alarms.



### 3.1.3 Checking Version Information

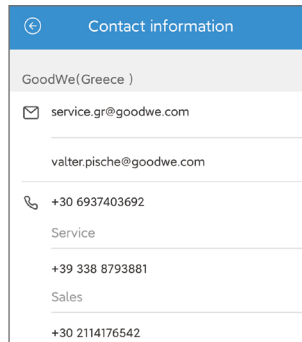
**Step 1** Tap **Home** > **More** > **Version** to check the version information.



| No. | Parameters          | Description   |
|-----|---------------------|---|
| 1   | WiFi module Version | The module version of the WiFi module connects to the inverter. |
| 2   | Firmware Version    | The software version of the inverter.                           |
| 3   | App Version         | SolarGo App software version.                                   |

### 3.1.4 Checking Contact Information

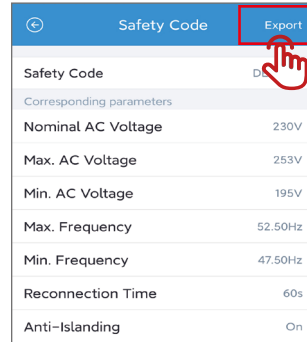
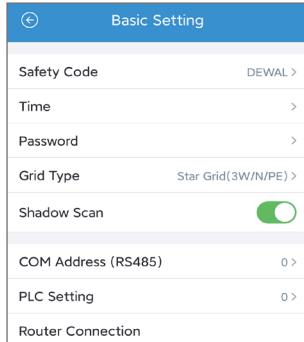
**Step 1** Tap **Home** > **More** > **Contact** to check the contact information.



## 3.2 Setting the Basic Information (Owner/Installer)

**Step 1** Tap Home> **More** > **Basic Setting** to set the basic parameters according to the inverter location and actual application scenarios.

**Step 2** (optional) Tap Export to export the default value of some parameters after selecting the safety code.

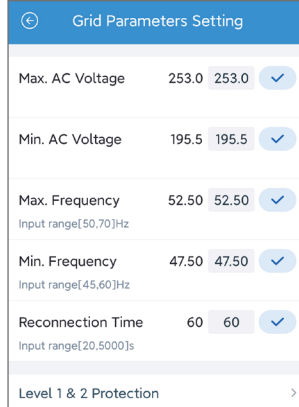


| No. | Parameters          | Description  |
|-----|---------------------|--|
| 1   | Safety Code         | Set the safety country in compliance with the local grid standards and application scenario of the inverter. The default parameters varies depending on different safety code.<br>Password for changing the safety parameters: goodwe2010.   |
| 2   | Time                | Set time according to the actual time in the country/region where the inverter is located. Both automatic calibration and manual setting are allowed at present.   |
| 3   | Password            | The login password can be changed. Keep the changed password in mind after changing it. Contact the after sales service if you forget the password.  |
| 4   | Grid Type           | Set the grid type according to the actual grid type. Supported grid type: star grid and delta grid.  |
| 5   | Shadow Scan         | Enable the shadow scan function if the PV panels are shadowed.   |
| 6   | COM Address (RS485) | Set the parameters for RS485 communication. Set the communication address based on the actual requirements. The Protocol type and Baud rate are for viewing only.  |
| 7   | PLC Setting         | Complete the PLC settings based on the connected box-type transformer.   |
| 8   | Router Connection   | Set the parameters of the router based on the connected router. Disable the DHCP and enter the IP Address, Subnet Mask, and Gateway Address manually when a static IP address is to be used. Enable the DHCP to enter the IP Address automatically and complete the registration when the static IP address is not to be used. |

### 3.3 Setting the Grid Parameters (Installer)

**Step 1** Tap **Home > More > Advanced Setting > Grid Parameters Setting** to set the parameters.

**Step 2** Enter the parameters based on actual needs and tap '√'. The parameters are set successfully.



| Grid Parameters Setting  |  |
|--------------------------|--|
| Max. AC Voltage          | 253.0 253.0 ✓  |
| Min. AC Voltage          | 195.5 195.5 ✓  |
| Max. Frequency           | 52.50 52.50 ✓<br><small>Input range[50,70]Hz</small> |
| Min. Frequency           | 47.50 47.50 ✓<br><small>Input range[45,60]Hz</small> |
| Reconnection Time        | 60 60 ✓<br><small>Input range[20,5000]s</small>      |
| Level 1 & 2 Protection > |  |

| No. | Parameters        | Description  |
|-----|-------------------|--|
| 1   | Max. AC Voltage   | The inverter cannot connect to the grid when the AC voltage is under the max. AC voltage.                                    |
| 2   | Min. AC Voltage   | The inverter cannot connect to the grid when the AC voltage is over the min. AC voltage.                                     |
| 3   | Max. Frequency    | The inverter cannot connect to the grid when the frequency is under the max. frequency.                                      |
| 4   | Min. Frequency    | The inverter cannot connect to the grid when the frequency is over the min. frequency.                                       |
| 5   | Reconnection Time | Indicates the time interval for the inverter to reconnect to the grid after the utility grid voltage and frequency recovers. |

### 3.4 Setting the Protection Parameters (Installer)

#### NOTICE

Set the parameters based on the requirements of the grid company. Do not change the parameters without the prior consent of the grid company.

**Step 1** Tap **Home** > **More** > **Advanced Setting** > **Grid Parameters Setting** > **Level 1&2 Protection** to set the parameters.

**Step 2** Tap **Protection Level** to set level 1 protection parameters or level 2 protection parameters.

**Step 3** Enter the parameters based on actual needs and tap "√". The parameters are set successfully.

| No. | Parameters                 | Description  |
|-----|----------------------------|--|
| 1   | Overvoltage Threshold 1    | Set the level 1 overvoltage protection threshold value.    |
| 2   | Overvoltage Trip Time 1    | Set the level 1 overvoltage protection tripping time.      |
| 3   | Undervoltage Threshold 1   | Set the level 1 undervoltage protection threshold value.   |
| 4   | Undervoltage Trip Time 1   | Set the level 1 undervoltage protection tripping time.     |
| 5   | Overfrequency Threshold 1  | Set the level 1 overfrequency protection threshold value.  |
| 6   | Overfrequency Trip Time 1  | Set the level 1 overfrequency protection tripping time.    |
| 7   | Underfrequency Threshold 1 | Set the level 1 underfrequency protection threshold value. |
| 8   | Underfrequency Trip Time 1 | Set the level 1 underfrequency protection tripping time.   |

| No. | Parameters                      | Description  |
|-----|---------------------------------|--|
| 9   | 10 Minute Overvoltage Threshold | Set the 10min overvoltage protection threshold value.      |
| 10  | Overvoltage Threshold 2         | Set the level 2 overvoltage protection threshold value.    |
| 11  | Overvoltage Trip Time 2         | Set the level 2 overvoltage protection tripping time.      |
| 12  | Undervoltage Threshold 2        | Set the level 2 undervoltage protection threshold value.   |
| 13  | Undervoltage Trip Time 2        | Set the level 2 undervoltage protection tripping time.     |
| 14  | Overfrequency Threshold 2       | Set the level 2 overfrequency protection threshold value.  |
| 15  | Overfrequency Trip Time 2       | Set the level 2 overfrequency protection tripping time.    |
| 16  | Underfrequency Threshold 2      | Set the level 2 underfrequency protection threshold value. |
| 17  | Underfrequency Trip Time 2      | Set the level 2 underfrequency protection tripping time.   |

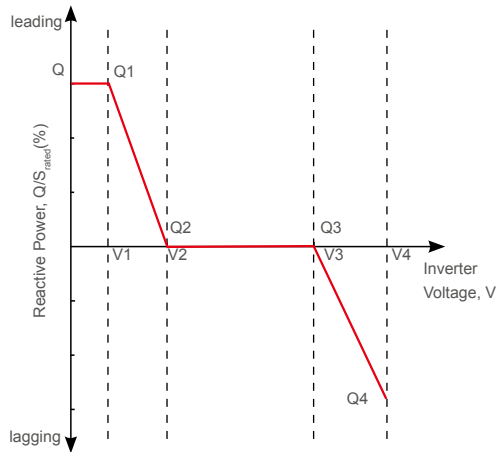
### 3.4.1 Setting the QU Curve

**Step 1** Tap **Home > More > Advanced Setting > Curve Settings > QU Curve** to set the parameters.

**Step 2** Enter the parameters based on actual needs and tap “√”. The parameters are set successfully.

The inverter will adjust the reactive power to the apparent power ratio in real-time according to the actual grid voltage to the rated voltage ratio.

| Parameter | Value | Input Range |
|-----------|-------|-------------|
| U1        | 0.0   | [0,130]%    |
| Q1        | 0.0   | [-60,60]%   |
| U2        | 0.0   | [0,130]%    |
| Q2        | 0.0   | [-60,60]%   |
| U3        | 0.0   | [0,130]%    |
| Q3        | 0.0   | [-60,60]%   |
| U4        | 0.0   | [0,130]%    |
| Q4        | 0.0   | [-60,60]%   |



| No. | Parameters | Description  |
|-----|------------|--|
| 1   | QU Curve   | Enable QU Curve when it is required by local grid standards and requirements.  |
| 2   | Un         | The percentage of actual voltage to the rated voltage at Vn point, n=1, 2, 3, 4.<br>For example, setting Un to 90 means $V/V_{rated}\% = 90\%$ .                 |
| 3   | Qn         | The percentage of the reactive output power to the apparent power at Vn point, n=1, 2, 3, 4.<br>For example, setting Qn to 48.5 means $Q/S_{rated}\% = 48.5\%$ . |



### 3.4.2 Setting the PU Curve

**Step 1** Tap Home > More > Advanced Setting > Curve Settings > PU Curve to set the parameters.

**Step 2** Enter the parameters based on actual needs and tap "√". The parameters are set successfully. The inverter will adjust the active output power to the apparent power ratio in real-time according to the actual grid voltage to the rated voltage ratio.

←
PU Curve

**PU Curve**

**U1** 0.0 0.0   
Input range[0,130]%

**V1 Active value** 0.0 0.0   
Input range[0,150]%

**U2** 0.0 0.0   
Input range[0,130]%

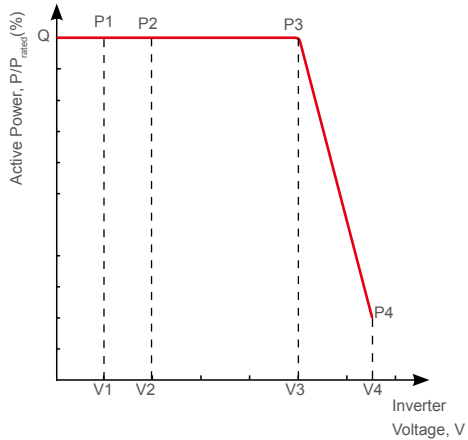
**V2 Active value** 0.0 0.0   
Input range[0,150]%

**U3** 0.0 0.0   
Input range[0,130]%

**V3 Active value** 0.0 0.0   
Input range[0,150]%

**U4** 0.0 0.0   
Input range[0,130]%

**V4 Active value** 0.0 0.0   
Input range[0,150]%



| No. | Parameters      | Description   |
|-----|-----------------|---|
| 1   | PU Curve        | Enable PU Curve when it is required by local grid standards and requirements.   |
| 2   | Un              | The percentage of actual voltage to the rated voltage at $V_n$ point ( $n=1, 2, 3, 4$ ).<br>For example, setting $U_n$ to 90 means $V/V_{rated}\% = 90\%$ .                           |
| 3   | Vn Active Value | The percentage of the output reactive power to the apparent power at $V_n$ point ( $n=1, 2, 3, 4$ ).<br>For example, setting Vn Active Value to 48.5 means $Q/P_{rated}\% = 48.5\%$ . |

### 3.4.3 Setting Cos φ Curve

**Step 1** Tap Home > More > Advanced Setting > Curve Settings > cos φ Curve to set the parameters.

**Step 2** Enter the parameters based on actual needs and tap "√". The parameters are set successfully. The inverter will adjust the active output power to the apparent power ratio in real-time according to the actual grid voltage to the rated voltage ratio.

←
cos φ Curve

cos φ Curve

Point A Power 0.0 0.0 ▼  
Input range[0,120]%

cos φ for Point A 0.0 0.0 ▼  
Input range[-1,1]

Point B Power 0.0 0.0 ▼  
Input range[0,120]%

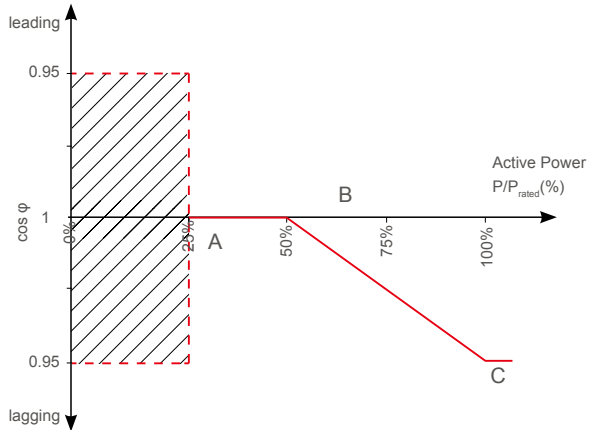
cos φ for Point B 0.0 0.0 ▼  
Input range[-1,1]

Point C Power 0.0 0.0 ▼  
Input range[0,120]%

cos φ for Point C 0.0 0.0 ▼  
Input range[-1,1]

Lock-in Voltage 0.0 0.0 ▼  
Input range[0,130]V

Lock-out Voltage 0.0 0.0 ▼  
Input range[0,130]V



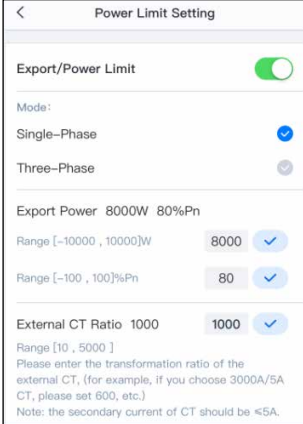
| No. | Parameters            | Description  |
|-----|-----------------------|--|
| 1   | Cos φ Curve           | Enable cos φ Curve when it is required by local grid standards and requirements.                                 |
| 2   | Point A/B/C Power     | The percentage of the inverter output active power to the rated power at point B.                                |
| 3   | cos φ for Point A/B/C | The power factor at point A/B/C.   |
| 7   | Lock-in Voltage       | When the grid voltage is between Lock-In Voltage and Lock-Out Voltage, the voltage meets Cosφ curve requirements |
| 8   | Lock-out Voltage      |  |
| 9   | Lock-out Power        | The Cosφ curve cannot work when the output active power to rated power ratio is lower than the Lock-Out Power.   |

## 3.5 Setting the Power Limit Parameters (Installer)

### 3.5.1 Power Limit Setting (For countries and regions except Australia)

**Step 1** Tap **Home** > **More** > **Advanced Setting** > **Power Limit Settings** to set the parameters.

**Step 2** Enter the parameters based on actual needs and tap "**√**". The parameters are set successfully.



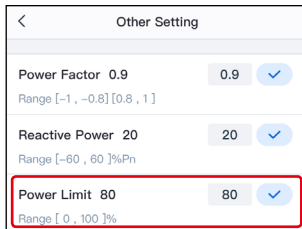
| No. | Parameters                    | Description  |
|-----|-------------------------------|--|
| 1   | Export/Power Limit            | Enable Export/Power Limit when power limiting is required by local grid standards and requirements.  |
| 2   | Mode                          | Select the power limiting mode in compliance with country/region requirements. Both single-phase and three-phase power limiting modes are supported. |
| 3   | Export Power                  | Set the value based on the actual maximum power feed into the utility grid.  |
| 4   | External CT Ratio             | Set the ratio of the primary current to the secondary current of the external CT.  |
| 5   | Export Power Limit Protection | After enabling this function, the inverter will stop grid tying once the export power limit fails.   |

### 3.5.2 Power Limit Setting (Only for Australia)

**Step 1** Tap **Home** > **More** > **Advanced Setting** > **Other Setting** to set the **Power Limit** parameter according to the actual needs.

**Step 2** Tap **Home** > **More** > **Advanced Setting** > **Grid Parameter Settings** to set the parameters.

**Step 3** Enter the parameters based on actual needs and tap "√". The parameters are set successfully.



Other Setting

Power Factor 0.9 0.9 ✓  
Range [-1, -0.8] [0.8, 1]

Reactive Power 20 20 ✓  
Range [-60, 60] %Pn

**Power Limit 80 80 ✓**  
Range [0, 100] %



Export Limit Setting

Export Limit:

Soft Limit

Export Power 8000W 80%Pn ✓  
Range [-10000, 10000]W 8000  
Range [-100, 100] %Pn 80

External CT Ratio 1000 1000 ✓  
Range [10, 5000]  
Please enter the transformation ratio of the external CT, (for example, if you choose 3000A/5A CT, please set 600, etc.)  
Note: the secondary current of CT should be ≤5A.

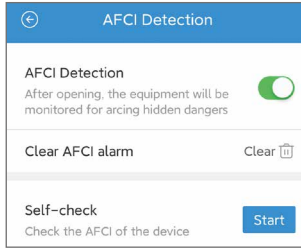
Hard Limit

If Soft limit and Hard limit are enabled at the same time, Generation limit function is enabled.

| No. | Parameters        | Description  |
|-----|-------------------|--|
| 1   | Soft Limit        | Enable Soft Limit when power limiting is required by local grid standards and requirements.  |
| 2   | Export Power      | Set the value based on the actual maximum power feed into the utility grid.  |
| 3   | External CT Ratio | Set the ratio of the primary current to the secondary current of the external CT.  |
| 4   | Hard Limit        | After enabling this function, the inverter and the utility grid will automatically disconnect when the power feeds into the grid exceeds the required limit. |

### 3.6 Set the AFCI Detection Parameters (Installer)

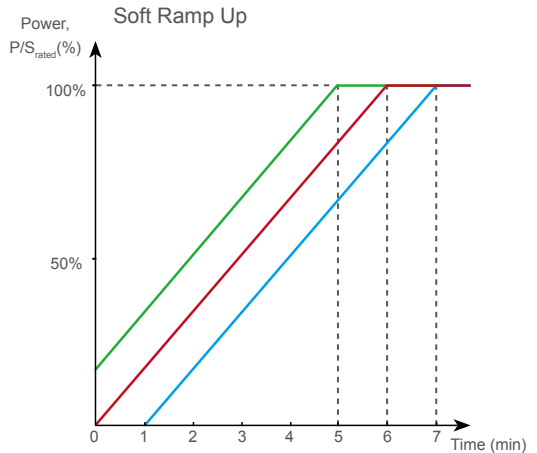
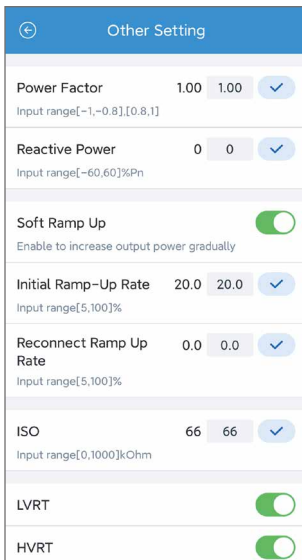
Step 1 Tap Home > More > Advanced Setting > AFCI Detection to set the parameters.



| No. | Parameters       | Description  |
|-----|------------------|--|
| 1   | AFCI Detection   | The Inverter ARC function is optional and off by default. Enable or disable ARC accordingly. |
| 2   | Clear AFCI alarm | Clear ARC Faulty alarm records.  |
| 3   | Self-check       | Tap Start to check whether the AFCI function is normal.                                      |

### 3.7 Setting Other Parameters (Installer)

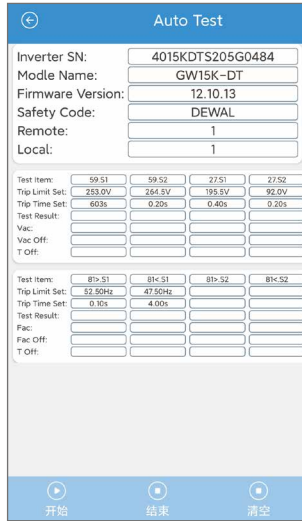
Step 1 Tap Home > More > Advanced Setting > Other Setting to set the parameters.



| No. | Parameters             | Description  |
|-----|------------------------|--|
| 1   | Power Factor           | Set the power factor of the inverter based on the actual situation.  |
| 2   | Reactive Power         | Set the reactive power value of the inverter.  |
| 3   | Soft Ramp Up           | The standards of some countries/regions require that the inverter shall derate the active power following a certain slope.   |
| 4   | Initial Ramp-Up Rate   | Indicates the percentage of incremental output power per minute based on the local requirements when the inverter is powered on for the first time.<br>For example, setting Initial Ramp-Up Rate to 10 means the start-up slope is $10\%P_{\text{rated}}/\text{min}$ . |
| 5   | Reconnect Ramp Up Rate | Indicates the percentage of incremental output power per minute based on the local requirements when the inverter is not powered on for the first time.<br>For example, setting Reconnect Ramp Up Rate to 10 means the reconnect slope is $10\%P/S_{\text{rated}}\%$ . |
| 6   | ISO                    | Indicates the PV-PE insulation resistance threshold value.<br>When the detected value is under the set value, the IOS fault occurs.  |
| 7   | LVRT                   | With LVRT on, the inverter will stay connected with the utility grid after a short-term utility grid low voltage exception occurs.   |
| 8   | HVRT                   | With HVRT on, the inverter will stay connected with the utility grid after a short-term utility grid high voltage exception occurs.  |

### 3.8 Setting Auto Test Parameters (Installer)

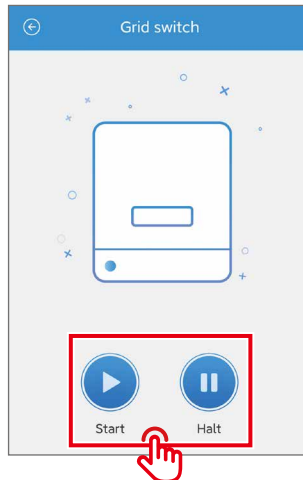
Step 1 Tap Home > More > Advanced Setting > Auto Test to set the parameters.



### 3.9 Device Maintenance (Installer)

#### 3.9.1 Starting/Halting the Grid

Step 1 Tap Home > More > Device maintenance > Grid to start or halt the grid.

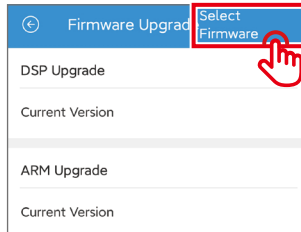


### 3.9.2 Upgrading the Firmware

#### Requirements:

- The upgrade patch has been obtained from the dealer or the after sales service.
- Duplicate the upgrade patch to the smart phone for the Android system.

**Step 1** Tap **Home > More > Device maintenance > Firmware upgrade** to upgrade the firmware version.





## 4 Troubleshooting

| No. | Fault  | Cause  | Solution   |
|-----|--|--|--|
| 1   | Cannot install the App                                       | <ol style="list-style-type: none"> <li>1. The smart phone operating system version is too low.</li> <li>2. The smart phone prevents installing the app.</li> </ol> | <ol style="list-style-type: none"> <li>1. Upgrade the phone operating system.</li> <li>2. Select Setting &gt; Security &gt; Install apps from external sources on your smart phone.</li> </ol> |
| 2   | Communication failure  | The communication distance between the smart phone and the inverter is out of range.   | Place the smart phone near the inverter and reconnect the WiFi module.   |
| 3   | Fail to obtain the data during operation.                    | The communication between the inverter and WiFi is interrupted.  |  |
| 4   | The connection between the inverter and WiFi is interrupted. | The communication between the inverter and WiFi is interrupted.  |  |
| 5   | The WiFi signal is not included in the app device list.      | The app is not connected to the WiFi signal.   | <ol style="list-style-type: none"> <li>1. Make sure that the WiFi module works normally.</li> <li>2. Refresh the device list. If the signal is still missing, restart the app.</li> </ol>      |

## 5 Appendix

### 5.1 Safety Country

| No.           | Safety Code    | No. | Safety Code   |
|---------------|----------------|-----|---------------|
| Europe        |                |     |               |
| 1             | Austria        | 2   | Belgium       |
| 3             | Bulgaria       | 4   | CEI_016       |
| 5             | Cyprus         | 6   | Czech         |
| 7             | Denmark        | 8   | France        |
| 9             | French_50Hz    | 10  | French_60Hz   |
| 11            | G98_1          | 12  | G99_1         |
| 13            | Germany        | 14  | Germany_B     |
| 15            | GreeceMainland | 16  | Holland       |
| 17            | Holland_2      | 18  | Holland_MV    |
| 19            | Hungary        | 20  | Ireland       |
| 21            | Italy          | 22  | NorthIreland  |
| 23            | Poland         | 24  | Poland_MV     |
| 25            | Romania        | 26  | Slovakia      |
| 27            | Spain          | 28  | Spain_MV      |
| 29            | SpainIsland    | 30  | Sweden        |
| 31            | Sweden_MV      | 32  | Switzerland   |
| 33            | VDE4110        |     |               |
| Global        |                |     |               |
| 1             | 50Hz_LV        | 2   | 50Hz Grid     |
| 3             | 60Hz_LV        | 4   | 60HzGrid      |
| North America |                |     |               |
| 1             | Barbados       | 2   | IEEE_1547_208 |
| 3             | IEEE_1547_220  | 4   | IEEE_1547_240 |
| 5             | IEEE1547_380V  |     |               |
| South America |                |     |               |
| 1             | Argentina      | 2   | Brazil        |
| 3             | Brazil_LV      |     |               |

| No.     | Safety Code    | No. | Safety Code      |
|---------|----------------|-----|------------------|
| Oceania |                |     |                  |
| 1       | AU_Endeavour   | 2   | AU_Energex       |
| 3       | AU_Ergon       | 4   | AU_Horizon       |
| 5       | AU_MicroGrid   | 6   | AU_VIC           |
| 7       | AUAusgrid      | 8   | AUEssential      |
| 9       | AUSAPN         | 10  | AustralianA      |
| 11      | AustralianB    | 12  | AustralianC      |
| 13      | AustralianL    | 14  | AUWAPN           |
| 15      | Energex30K     | 16  | Ergon30k         |
| 17      | GreenGrid      | 18  | NewZealand       |
| Asia    |                |     |                  |
| 1       | China          | 2   | ChinaStation     |
| 3       | CHNSpecialHigh | 4   | CHNSpecialMedium |
| 5       | DEWA_MV        | 6   | DEWAL            |
| 7       | HongKong       | 8   | IEC61727_50Hz    |
| 9       | India          | 10  | India_60HZ       |
| 11      | IndiaHigher    | 12  | Israel           |
| 13      | JP_50Hz        | 14  | JP_60Hz          |
| 15      | Korea          | 16  | Philippines      |
| 17      | SriLanka       | 18  | Taiwan           |
| 19      | ThailandM      | 20  | ThailandP        |
| Africa  |                |     |                  |
| 1       | Africa         | 2   | Mauritius        |

## 5.2 Australia Safety Regulations

For the Australian market, to comply with AS/NZS 4777.2:2020, please select from Australia A, Australia B, Australia C, or New Zealand. Please contact your local electricity grid operator on which Region to select.

Selecting a Region B should then automatically load all region B setpoints for volt-watt, volt-var, underfrequency, overfrequency, etc.

### Volt-var response set-point values

| Region        | Default value                                 | U1                   | U2           | U3           | U4                   |
|---------------|---|----------------------|--------------|--------------|----------------------|
| Australia A   | Voltage                                       | 207V                 | 220V         | 240V         | 258V                 |
|               | Inverter reactive power level (Q) % of Srated | 44 % supplying       | 0%           | 0%           | 60 % absorbing       |
| Australia B   | Voltage                                       | 205V                 | 220V         | 235V         | 255V                 |
|               | Inverter reactive power level (Q) % of Srated | 30 % supplying       | 0%           | 0%           | 40 % absorbing       |
| Australia C   | Voltage                                       | 215V                 | 230V         | 240V         | 255V                 |
|               | Inverter reactive power level (Q) % of Srated | 44 % supplying       | 0%           | 0%           | 60 % absorbing       |
| New Zealand   | Voltage                                       | 207V                 | 220V         | 235 V        | 244 V                |
|               | Inverter reactive power level (Q) % of Srated | 60 % supplying       | 0%           | 0%           | 60 % absorbing       |
| Allowed range | Voltage                                       | 180 to 230 V         | 180 to 230 V | 230 to 265 V | 230 to 265 V         |
|               | Inverter reactive power level (Q) % of Srated | 30 to 60 % supplying | 0%           | 0%           | 30 to 60 % absorbing |

**NOTE 1** Inverters may operate at a reactive power level with a range up to 100 % supplying or absorbing.

**NOTE 2** Australia C parameter set is intended for application in isolated or remote power systems.

**Volt-watt response default set-point values**

| Region        | Default value   | U3           | U4           |
|---------------|---|--------------|--------------|
| Australia A   | Voltage   | 253V         | 260V         |
|               | Inverter maximum active power output level (P) % of $S_{rated}$ | 100%         | 20%          |
| Australia B   | Voltage   | 250V         | 260V         |
|               | Inverter maximum active power output level (P) % of $S_{rated}$ | 100%         | 20%          |
| Australia C   | Voltage   | 253V         | 260V         |
|               | Inverter maximum active power output level (P) % of $S_{rated}$ | 100%         | 20%          |
| New Zealand   | Voltage   | 242 V        | 250V         |
|               | Inverter maximum active power output level (P) % of $S_{rated}$ | 100%         | 20%          |
| Allowed range | Voltage   | 235 to 255 V | 240 to 265 V |
|               | Inverter maximum active power output level (P) % of $S_{rated}$ | 100%         | 0 % to 20 %  |

**NOTE:** Australia C parameter set is intended for application in isolated or remote power systems.

**Passive anti-islanding voltage limit values**

| Protective function        | Protective function limit | Trip delay time | Maximum disconnection time |
|----------------------------|---------------------------|-----------------|----------------------------|
| Undervoltage 2 ( $V < <$ ) | 70 V                      | 1 s             | 2 s                        |
| Undervoltage 1 ( $V <$ )   | 180 V                     | 10 s            | 11 s                       |
| Overvoltage 1 ( $V >$ )    | 265 V                     | 1 s             | 2 s                        |
| Overvoltage 2 ( $V > >$ )  | 275V                      | -               | 0.2 s                      |

**Passive anti-islanding frequency limit values**

|                         | Region                          | Australia A | Australia B | Australia C | New Zealand |
|-------------------------|---------------------------------|-------------|-------------|-------------|-------------|
| Underfrequency 1 (F < ) | Protective function limit value | 47 Hz       | 47 Hz       | 45 Hz       | 45 Hz       |
|                         | Trip delay time                 | 1 s         | 1 s         | 5 s         | 1 s         |
|                         | Maximum disconnection time      | 2 s         | 2 s         | 6 s         | 2 s         |
| Over-frequency 1 (F > ) | Protective function limit value | 52 Hz       | 52 Hz       | 55 Hz       | 55 Hz       |
|                         | Trip delay time                 | -           | -           | -           | -           |
|                         | Maximum disconnection time      | 0.2s        | 0.2s        | 0.2s        | 0.2s        |




  
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Local Contacts