



SolarGo User Manual

SolarGo Mobile App

V2.1-2025-02-25

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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 notices and warnings of the app 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 this document and the equipment user manual to learn the product functions and features. When the parameters are set improperly, the equipment may fail to work properly.
- This manual is subject to update without notice. For more product details and latest documents, visit www.goodwe.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:

A DANGER
Indicates a high-level hazard that, if not avoided, will result in death or serious injury.
Indicates a medium-level hazard that, if not avoided, could result in death or serious injury.
Indicates a low-level hazard that, if not avoided, could result in minor or moderate injury.
NOTICE
Highlights key information and supplements the texts. Or some skills and methods to solve product-related problems to save time.

2 Product Introduction

SolarGo app is a mobile application that communicates with the inverter via Bluetooth, WIFi, 4G, or GPRS. Commonly used functions are as follows:

- 1. Check the operating data, software version, alarms, etc.
- 2. Set safety country, grid parameters, power limit, communication parameters, etc.
- 3. Set charging mode of the charger.
- 4. Equipment maintenance.

2.1 Applicable Product Model

SolarGo app applies to GoodWe inverters and chargers.

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

Connect as the following shows after powering on the equipment.

NOTICE

The connection distance varies depending on communication module. Refer to the actual used communication module.



2.4 GUI Introductions to Login Page



No.	Name/Icon	Description	
1	SEMS	Tap the icon to download the SEMS Portal app.	
2	?	Tap to read the connection guide.	
	Not found	······································	
3	$\overline{\cdots}$	 Check information such as app version, local contacts, etc. Settings like data update , language, temperature unit, etc. 	
4	Bluetooth/WiFi	Select based on actual communication method. If you have any problems, tap ? or NOT Found to read the connection guide.	
5	Device List	 The list of all devices. The last digits of the device name are normally the serial number of the device. Select the device by finding the serial number of the master inverter when multi inverters are parallel connected. The device name varies depending on the inverter model or communication module: Wi-Fi/LAN Kit, Wi-Fi Kit, Wi-Fi Box: Solar-WiFi*** External or integrated bluetooth mudule:SOL-BLE*** WiFi Kit-20: WLA-*** WiFi Kit-20: WFA-*** Ezlink3000: CCM-BLE**/CCM-***/*** 4G Kit-CN-G20/4G Kit-CN-G21: GSA-***; GSB-*** Micro inverter: WNN*** AC Charger: *** 	
6	Search Device	Tap Search Device if the device is not found.	

3 App Operations for Grid-Tied PV Inverters

NOTICE

- All the user interface (UI) screenshots or words in this document are based on SolarGo app V6.0.0. The UI may be different due to the version upgrade. The screenshots, words or data are for reference only.
- The method to set parameters is the same for all inverters. But the parameters displayed varies based on the equipment model and safety code. Refer to the actual interface display for specific parameters.
- Before setting any parameters, read through user manual of the app and the inverter or charger 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 in compliance with related requirements and damage the battery, which will affect the inverter's power generation.

3.1 Log In as Grid-Tied PV Inverter

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.
- The screenshots in this chapter are based on WiFi or Bluetooth login.

Step 1 Ensure that the inverter is power on, both the inverter and the communication module are working properly.

Step 2 Tap **Bluetooth** or **WiFi** tab on the homepage of SolarGo app based on the communication method.

Step 3 (optional): If you choose to connect the device via WiFi, open the WiFi settings of your phone first and connect to the inverter's WiFi signal (Solar-WiFi***). Default password: 12345678.

Step 4 Pull down or tap **Search Device** to refresh the device list. Find the device by the the inverter serial number. Tap the device name to log in. Select the device by checking the serial number of the master inverter when multi inverters are parallel connected.

Step 5(optional) For first connection with the device via Bluetooth, there will be a Bluetooth pairing prompt, tap **Pair** to continue the connection.

Step 6 Log in as an Owner or an Installer. Initial password: 1234.

Step 7 (optional) If connecting via Solar-WiFi***, modify the initial WiFi password following the prompts. If connecting via WLA-*** or WFA-***, modify the initial login password following the prompts.

Step 8 (Optional) If connecting via WLA-*** or WFA-***, enable **Bluetooth Stays On** following the prompts as entering the device details page. Otherwise, the bluetooth signal of the device will be off after disconnection.

Connecting the inverter via WLAN

NOTICE

- If the SolarGo app version is upgraded to V5.6.2 or later, a **Reminder** will pop up every time you connect to the inverter via WLAN to prompt you to change the password. If you want to permanently close the pop-up window, tap **Never Show Again**.
- If you forget the new password, reset the password by the smart dongle or the LCD of the inverter. Restore the dongle to reset the password will loss network configurations before.

Device List	🖾 🕐 💮	Device List	() () () () () () () () () () () () () (Device List	in (?)
Bluetooth	WLAN	Bluetooth	WLAN	Bluetooth	WLAN
		3 Your mobile phone h WLAN: 1.Please turn on WLA	os as not turned on the	4 ⊗ Solar-	222000014 >
		2.Find Solar-WiFIXX3 (XXXXXXX is the la the inverter SN). 3.Enter the default p 4.Return to App and Device] to refresh th	XXXXX st 8 characters of assword: 12345678. click button [Search e list.	ক্ন Solar- ক্ন Solar-	122CW2114 >
No De	evice	Cancel	Sure	🔿 Solar-	
2 Search I	Device Not Found >	✓ Settings WL WLAN ✓ Solar-WiFi	AN Edit	Search	Device Not Found >
← Status:Fault	Unit-kW	Privacy 8 WLAN Module Passwore	a Security	< WLAN Module Pa	ssword C Save
1.To the privacy ar device, please go WLAN module pass 2. Please make su the new password if you forget the p not be able to retr 3.If you forget too can reset the mod	000 inder and scaurity of the and change the sword, re to remember after the change. assword, you will leve it. r password, you ule and restore it sword (the default	 Please make sure to repassword after the chang password, you will not be 2.If you forget your passy module and restore it to 1 default password for the 12345678). Note: Resetting the module module to return to facto network configuration to 	member the new le. If you forget the able to retrive it. vord, you can reset the he default password (the WLAN module is ule will cause the WLAN ry settings and require be reconfigured.	Note The password for the been successfully of the (Settings) - (WL your phone and recomodule 1. Please turn on you 2. Please turn on you 2. Please turn on you 3. Ple	inder a WLAN module has anged. Please go to ANJ interface on nnnect to the WLAN rr mobile WLAN.
Grid Grid TCC Note: Resetting th cause the WLAN to factory settings network configura reconfigured.	WLAN module is e module will module to return and require tion to be	WLAN Module Pa Please enter the new Please enter new pas	assword C Save	2. Search for Solar V (XXXXXXX is the la inverter SN). 3. Enter the modified 4. Return to the app Device' button, and	In XXXXXXXX st & bits of the 4 password. click the 'Search refresh the list.
Met Never Sh Communication Failure	ow Again	Note: 8-16 characters, numbers, or uppercase (, 0-9, a-z, A-Z)	can be underscores, and lowercase letters		
Home Paran	neters Settings				



3.2 GUI Introductions to Grid-Tied PV Inverters

Single Inverter



No.	Name/Icon	Description
1	Serial Number	Serial number of the connected inverter.
2	Device Status	Indicates the status of the inverter, such as Working , Fault , etc.
3	Energy Flow Chart	Indicates the energy flow chart of the PV system. The actual page prevails.
4	System Status	Indicates the working status of the PV system, such as Etotal , Safety Country, AC Current, AC Voltage , etc.
5	f	Home. Tap Home to check Serial Number, Device Status, Energy Flow Chart, System Status, etc.
6	Ē	Parameters. Tap Parameters to check the inverter Data , like Device Model, FW Version, PV, AC Current, AC Voltage , etc Or check Alarm like Utility Loss, Undervoltage , etc
7	\odot	Settings. Tap Settings to set parameters like Safety Code , Com- munication Settings , Power Limit , Firmware Update , AFCI Detection , Equipment Power Supply , etc

Parallel Connected Inverters



No.	Name/Icon	Description	
1	System Status	Indicates the status of the parallel system, such as Working , Fault , etc	
2	Energy Flow Chart	Indicates the energy flow chart of the PV system. The actual page prevails.	
3	Parallel Sys- tem	 Total Number: total number of inverters in the parallel system. Total Online: online inverters in the parallel system. Total abnormal: offline inverters in the parallel system. Tap Total Number to check serial numbers of all the inverters. Tap the serial number to enter the setting page of the single inverter. 	
4	System Status	Indicates the working status of the PV system, such as Etotal of the system, and Safety Country , AC Current , AC Voltage and others of the master inverter.	
5	f	Home. Tap Home to check Serial Number, Device Status, Energy Flow Chart, System Status, etc.	
6	Ē	Parameters. Tap Parameters to check the model or status of both master and slave inverters in the system, or check FW Version , A Current , AC Frequency , etc. of the master inverter. Or check Alar like Utility Loss , Undervoltage , etc	
7	\odot	 Settings. Tap to set Quantity, Safety Code, Equipment Power Supply, DRED, etc The settings are effect to all the inverters in the parallel system. 	

3.3 Configuring Communication Parameters

NOTICE

The communication configuration page varies depending on the communication method.

3.3.1 Setting Privacy and Security

Type I

Step 1 Tap **Home** > **Settings** > **Communication Setting** > **Privacy & Security** to set the parameters.

Step 2 Set the new password for the WiFi hotspot of the communication module, and tap Save.

Step 3 Open the WiFi settings of your phone and connect to the inverter's WiFi signal (Solar-WiFi***) with the new password.

Settings	< Communication Settings	Privacy & Security
品 Communication Settings	Privacy & Security	WLAN Module Password Change
	WLAN/LAN >	1. Please make sure to remember the new password after the change. If you forget the password you will not be able to retrieve it
Basic Settings >	4G >	2.If you forget your password, you can reset the module and restore it to the default password (the default password for the WLAN module is
Image: Advanced Settings >	R\$485 >	12345678). Note: Resetting the module will cause the WLAN module to return to factory settings and require
¢ ∮ Load Control >		network configuration to be reconfigured.
U Power on/off >		
Firmware Information >		
Change Login Password >		
Anne Parameters	► K WLAN Module Password C Save	
Please enter the new password (•	
Please enter new password again 🛛 💿	•	
Note: 8–16 characters, can be underscores, numbers, or uppercase and lowercase letters (_, 0-9, a-z, A-Z)	Reminder The password for the WLAN module has been successfully changed. Please go to been successfully changed. Please go to your phone and reconnect to the WLAN module 	

Type II

Step 1 Tap **Home** > **Settings** > **Communication Setting** > **Privacy & Security** to set the parameters.

Step 2 Enable Bluetooth Stays On or WLAN Control based on actual needs.

Settings	< Communication Settings	< Privacy & Security
Communication Settings	Privacy & Security	Bluetooth
	WLAN/LAN >	Bluetooth Stays On
Basic Settings >	4G >	Bluetooth. OFF:The APP will not be able to access the device through Bluetooth. If the APP cannot search for the Bluetooth
Image: Advanced Settings >	RS485 >	signal of the device, please double-click the "RELOAD" button on the communication module to turn on the Bluetooth signal, and use the APP to connect to the device within 5 minutes.
¢∮ Load Control >		WLAN
U Power on/off >		WLAN Control
Firmware Information		ON:The APP can connect devices through the WLAN local area network of the communication module. OFF:The APP cannot connect to the device through the WLAN local area network of the communication module.
Change Login Password >		
Home Parameters Settings		

No.	Parameters	Description
	Bluetooth Stays On	Disabled by default. Enable the function, the bluetooth of the
1		device will be contentious on to keep connected to SolarGo.
1		Otherwise, the bluetooth will be off in 5 minutes, and the
		device will be disconnected from SolarGo.
		Disabled by default. Enable the function, the device and the
2		SolarGo can be connected through the WLAN when they are
Ζ	WLAN CONTO	on the same LAN. Otherwise, they cannot be connected even if
		they are on the same LAN.

3.3.2 Configuring Network

Step 1 Tap **Home > Settings > Communication Setting > WLAN/LAN** to set the parameters.

Step 2 Configure the WLAN or LAN parameters based on actual needs.

Settings	< Communication Settings		< WLAN	I/LAN Save
品 Communication Settings	WLAN/LAN		WLAN	
	WLAN Detection	>	Network Name	
Basic Settings >			TP-LINK_Network	\sim
	4G	>	Encryption Type	
Advanced Settings >	R\$485	>	WPA2/WPA	~
¢ Ŷ Load Control >	PLC	>	Password	
() Power on/off >				بر
Firmware Information			DHCP If you need to set a specifi manually enter it after turr	c IP address, you can hing off DHCP.
Change Login Password >			IP Address	172.18-0.115
			Subnet Mask	255.255.255.0
			Gateway Address	172.58-0.1
			DNS Server	172.18-0.1
Home Parameters			LAN	Not Connected
			Restore factory commu	nication settings

No.	Parameters	Description
1	Network Name	Only for WLAN. Select WiFi based on the actual connecting.
2	Deceword	Only for WLAN. WiFi password for the actual connected
2	Passworu	network.
		• Enable DHCP when the router is in dynamic IP mode.
3	DHCP	• Disable DHCP when a switch is used or the router is in static
		IP mode.
4	IP Address	Do not configure the perspectors when DLICD is enabled
5	Subnet Mask	• Do not configure the parameters when DHCP is enabled.
6	Gateway Address	Configure the parameters according to the router or switch
7	DNS Server	Information when DHCP is disabled.

3.3.3 Configuring 4G Parameters

NOTICE

- APN Settings can only be used to configure the SIM card information of 4G communication device.
- Configure the APN settings through a bluetooth module or a WiFi module before installing a 4G module.

Step 1 Tap **Home** > **Settings** > **Communication Setting** > **4G** to set the parameters.

Step 2 Configure the **4G** parameters based on actual needs.

Settings	< Comr	nunication Settings	<	4G	Save
Communication Settings	WLAN/LAN	>	APN Info Region:Australia Operator:Telstra.I APN Name:Telstra	m2m a.m2m	盘
Basic Settings >	4G	>	Select area and o	perator	~
Advanced Settings >	RS485	>	Australia		~
♦ ↓ Load Control >	PLC	>	Telstra.m2m		0
ひ Power on/off >			Optus		0
Firmware Information			Telstra		0
Change Login Password >			Europe		~
			Netherlands		\sim
Home Parameters					

3.3.4 Configuring RS485 Parameters

NOTICE

Set the communication address of the inverter. For a single inverter, the address is set based on actual needs. For multi connected inverters, the address of each inverter should be different while cannot be 247.

Step 1 Tap **Home > Settings > Communication Setting > RS485**, to set the RS485 parameters.

Step 2 Set Protocol Type, COM Address and Baud Rate based on actual needs.

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Settings		< Communication Settings		< RS485	
品 Communication Settings	•	WLAN/LAN	Σ	Protocol Type(Modbus RTU):	
		WLAN Detection	>	GOODWE	~
Basic Settings >		4G	>	COM Address	90 🗸
		RS485	>	Range[1, 247]	
¢ Ŷ Load Control >		PLC	>	Baud Rate	9600
U Power on/off >					
Firmware Information					
Change Login Password					
Home Parameters Settings					

3.3.5 Configuring PLC Parameters

Only for PLC communication. Set parameters based on actual connected transformer.

Step 1 Tap Home > Settings > Communication Settings > PLC Setting to set the parameters.



Settings	Communication Settings			<	PLC		
品 Communication Settings	WLAN/LAN	>		Transformer No.		0	~
Basic Settings >	WLAN Detection 4G	>					
Advanced Settings	R\$485	>					
¢∮ Load Control >	PLC	\rightarrow	•				
() Power on/off >							
Firmware Information							
음 Change Login Password >							
Home Parameters							

3.3.6 WLAN Detection

Step 1 Tap **Home > Settings > Communication Settings > WLAN Detection**.

Step 2 Tap **Diagnosis** to check the network connection status.

Settings	< Communication Settings	< WLAN Detection
品。Communication Settings)	WLAN/LAN	▶ (□) - (⊒) - (≧) - (≧)
Basic Settings >	4G >	
Advanced Settings	R\$485	
¢∮ Load Control >	PLC >	Please configure the investor to ensure
() Power on/off >		successful connection with router then click the "Start Diagnosis" button to diagnose
Firmware Information		
Change Login Password		
inone Parameters Bertings		Diagnosis

3.4 Setting Basic Information (Owner/Installer)

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



No.	Parameters	Description
1	Safety Code	 Set the safety country in compliance with local grid standards and application scenario of the inverter. The default parameters varies depending on different safety code. The safety parameters can be changed in Safety Parameters. Tap Safety Code > Export to export the default value of some parameters. Password for changing the safety parameters: goodwe2010 or 1111.
2	SPD	After enabling this function, when the SPD module is abnormal, there will be SPD module exception alarm prompt.
3	Grid Type	Set the grid type according to the actual grid type. Supported grid type: star grid and triangle grid.
4	Shadow Scan	Enable the shadow scan function if the PV panels are shadowed. Set the Shadow Scan interval and MPPT shadow scan if the inverter supports.
5	DC Tripping	Enable the DC tripping function to disconnect the DC switch automatically when the inverter fails.
6	Power scheduling	Set the output value of the inverter.
7	Auto Test	Enable Auto Test to set auto test for grid tying in compliance with local grid standards and requirements.

3.5 Setting Remote Shutdown/DRED/RCR

Enable Remote Shutdown/DRED/RCR before connecting the third party DRED, remote shutdown, or RCR device to comply with local laws and regulations.

Step 1 Tap **Home** > **Settings** > **Advanced Settings** to set the parameters.

Step 2 Enable Remote Shutdown, DRED or RCR based on actual needs.

Settings		<	Advanced Settings	
品 Communication Settings	>	Remote Shu	tdown	
Basic Settings	>	DRED		
Advanced Settings	>	 PID Function	ı	
¢ و Load Control	>	PID Repair		
い Power on/off	>	Power Limit		
Firmware Information	>	N-PE Voltag	e Detection	>
Change Login Password	>	DC AFCI De	tection	>
		Power Sche Parameters	duling Response	>
		Safety Parar	meters	>
Home Parameters	Settings	Export		>

3.6 Setting PID Function

NOTICE

The PID Function and PID Repair are only available on some inverters.

When a photovoltaic panel is working, the potential difference between the output electrode and the grounded frame of the panel can cause a long-term reduction in the power generation efficiency of the panel, which is the Potential Induced Degradation (PID) effect.

The PID function of this product is to increase the voltage difference between the photovoltaic panels and the frame until the voltage difference is positive, so that the PID effect can be suppressed. The function is suitable for P-type panels and N-type panels that need to increase the positive voltage to suppress the PID effect. It is recommended to disable the function for N-type panels which require the negative voltage to be reduced to suppress the PID effect. When using N-type panels, contact the panel supplier to confirm whether it is necessary to suppress the PID effect by increasing the positive voltage.

Step 1 Tap **Home** > **Settings** > **Advanced Settings** to set the parameters.

Step 2 Enable PID Function or PID Repair based on actual needs

Settings	< Advanced Settings
品 Communication Settings >	Remote Shutdown
Basic Settings	DRED
Advanced Settings	RCR
¢۹ Load Control >	PID Function
() Power on/off >	
Firmware Information	Power Limit >
Change Login Password >	N-PE Voltage Detection >
	DC AFCI Detection
	Power Scheduling Response > Parameters
	Safety Parameters >
Home Parameters	Export >

3.7 Setting the Power Limit Parameters (Installer)

Enable Power Limit when power limiting is required by local grid standards and requirements.

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

Step 2 Enable **Power Limit**, set **Export Power** and **External CT Ratio** based on actual needs and tap $\sqrt{}$. The parameters are set successfully.

3.7.1 Power Limit Setting (For countries and regions except Australia/Britain)

Settings	Advanced Settings	< Power Limit
器 Communication Settings >	Remote Shutdown	Power Limit
	DRED	Select Mode:
Basic Settings	RCR	Total Power: Limit the total power of three phases.
Image: Advanced Settings	PID Function	separately.
¢ ¢ Load Control >	PID Repair	Unit:W 199 199
U Power on/off >	Power Limit	Corresponding Percentage:1%
Firmware Information	N-PE Voltage Detection	External CT Ratio 0 0 🗸
Change Login Password >	DC AFCI Detection	 If the current of the primary side and secondary side of the selected CT is 3000A:5A, please enter the CT ratio value of 600, and so on. The secondary current of the external CT should be
	Power Scheduling Response > Parameters	sbA.
	Safety Parameters	
Home Parameters	Export >	

No.	Parameters	Description
1	Bower Limit	Enable Power Limit when power limiting is required by local grid
1		standards and requirements.
		Select power limit mode for some inverters. Supports: Split-Phase
2	Select Mode	Power and Total Power.
2		Limit the power per phase when Split-Phase Power is selected, and
		limit total power of the three phases when Total Power is selected.
2	Export Dowor	Set the value based on the actual maximum power feed into the utility
5	Export Power	grid.
4	External CT	Set the ratio of the primary current to the secondary current of the
4	Ratio	external CT.

3.7.2 Power Limit Setting (Only for Australia)

Settings	Advanced Settings	< Export Limit Setting
·		Export Limit:
品 Communication Settings >	Remote Shutdown	Soft Limit
Basic Settings	DRED	Select Mode:
S Dasic Settings	RCR	Total Power 🗸
Image: Advanced Settings Image: Settings I	PID Function	Total Power: Limit the total power of three phases. Split Phase Power: Limit the power of each phase separately.
∮ ∮ Load Control	PID Repair	Export Power
() Power on/off >		Unit:W 0 0
Firmware Information	Power Limit >	Corresponding Percentage:0%
	N-PE Voltage Detection	Hard Limit
Change Login Password >	DC AFCI Detection >	If Soft limit and Hard limit are enabled at the same time, Generation limit function is enabled.
	Power Scheduling Response > Parameters	External CT Ratio 0 0
	Safety Parameters >	Range[10,5000] 1. If the current of the primary side and secondary side of the selected CT is 3000A:5A, please enter the CT ratio value of 600, and so on.
Home Parameters Settings	Export >	 The secondary current of the external CT should be ≤5A.

No.	Parameters	Description
1	Soft Limit	Enable Soft Limit when power limiting is required by local grid
1	SOILLIIIIL	standards and requirements.
		Select power limit mode for some inverters. Supports: Split-Phase
2	Select Mode	Power and Total Power.
		• Limit the power per phase when Split-Phase Power is selected, and
		limit total power of the three phases when Total Power is selected.
2	Export Power	Set the value based on the actual maximum power feed into the utility
5		grid.
4	External CT	Set the ratio of the primary current to the secondary current of the
	Ratio	external CT.
5		After enabling this function, the inverter and the utility grid will
	Hard Limit	automatically disconnect when the power feeds into the grid exceeds
		the required limit.

3.7.3 Power Limit Setting (Only for Britain)

Settings	< Advanced Settings	< Power Limit
器 Communication Settings >	Remote Shutdown	Power Limit
Paris Cattings	DRED	Select Mode:
Advanced Settings	RCR	Single Phase Current:
↓ Load Control >>	PID Function	(3-phase meter only). Current Limit 0.43 0.43
し Power on/off >	PID Repair	Range[0,500]A
Firmware Information	Power Limit >	CLS Status Occasionally Overrun
윤 Change Login Password >	N-PE Voltage Detection >	External CT Ratio 0 0 V
	DC AFCI Detection >	of the selected CT is 3000A:5A, please enter the CT ratio value of 600, and so on. 2. The secondary current of the external CT should be
	Power Scheduling Response	<5A.
	Safety Parameters >	
い E Home Parameters Settings	Export >	

No.	Parameters	Description
1	Power Limit	Enable Power Limit when power limiting is required by local grid
		standards and requirements.
2	Select Mode	 Select current limit mode for some inverters. Supports: Split-Phase Current and Total Current . Limit the current per phase when Split-Phase Current is selected, and limit total current of the three phases when Total Current is
		selected.
3	Current Limit	Set the value based on the actual current limit.
4	External CT	Set the ratio of the primary current to the secondary current of the
	Ratio	external CT.

3.8 Setting the N-PE Voltage Detection

Step 1 Tap **Home** > **Settings** > **Advanced Settings** > **N-PE Voltage Detection** to set the parameters.

Step 2 Enable N-PE Voltage Detection, set N-PE Error Threshold based on actual needs and

tap $\sqrt{.}$ The parameters are set successfully.

Settings	Advanced Settings	N-PE Voltage Detection
品 Communication Settings >	Remote Shutdown	N-PE Voltage Detection
	DRED	N-PE Error Threshold 0.0 0.0 V
Basic Settings	RCR	
Advanced Settings	PID Function	
♦ ↓ Load Control >	PID Repair	
() Power on/off >		
Firmware Information	Power Limit	
	N-PE Voltage Detection	
Change Login Password >	DC AFCI Detection >	
	Power Scheduling Response > Parameters	
	Safety Parameters	
Home Parameters	Export >	

3.9 Set the DC AFCI Detection Parameters (Installer)

Step 1 Tap Home > Settings > Advanced Settings > AFCI Test to set the parameters.

Settings		Advanced Settings		<	DC AFCI Detection
器 Communication Settings >	R	emote Shutdown		DC AFCI I After it is tu equipment	Detection rned on, you can monitor whether the has AFCI hidden dangers
Basic Settings	D	RED		Clear AFC	Cl Alarm (윤
Advanced Settings	R	CR		Self-chec	k Start
Q Advanced Settings	Р	ID Function		Check the	AFCI module of the equipment
¢ ∳ Load Control >	Р	ID Repair			
① Power on/off >					
Firmware Information	P	ower Limit	>		
	N	-PE Voltage Detection	>		
Change Login Password		C AFCI Detection	>	+	
	P	ower Scheduling Response arameters	>		
	s	afety Parameters	>		
Home Parameters	E	xport	>		

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

3.10 Setting the Power Scheduling Response Parameters

Step 1 Tap **Home > Settings > Advanced Settings > Power Scheduling Response Parameters** to set the parameters.

Step 2 Select Disable, Gradient Control, or PT-1 Behavior from the Active Power Dispatching Response Mode drop down list based on actual needs. If Gradient Control is selected, enter Power Gradient value. If PT-1 Behavior is selected, enter PT-1 Behavior Tau based on actual needs.

Step 3 Select Disable, Gradient Control, or PT-1 Behavior from the Reactive Dispatching Response Mode drop down list based on actual needs. If Gradient Control is selected, enter Power Gradient value. If PT-1 Behavior is selected, enter PT-1 Behavior Tau based on actual needs.

Step 4 Tap 🖌 to save the settings.

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	Settings	< Advanced Settings	Power Scheduling Response Parameters
品	Communication Settings	Remote Shutdown	ive Power Dispatching Response Mode
0	Basic Settings >		ation Dispetching Despense Made
<u></u>	Advanced Settings	PID Function	isable
¢٩	Load Control >	PID Repair	
	Power on/off >		
٢	Firmware Information >	Power Limit >	
ß	Change Login Password >	N-PE Voltage Detection > DC AFCI Detection >	
		Power Scheduling Response >	
		Safety Parameters	
Н	Dome Parameters	Export >	

No.	Parameters	Description			
Active F	Active Power Dispatching Response Mode				
1	DT 1 Pobavior	Realize active scheduling based on the first-order LPF curve			
		within the response time constant.			
2	DT 1 Pobavior Tau	Set the time constant within which the active power changes			
2		based on the first order LPF curve.			
3	Gradient Control	Realize active scheduling based on the power change slope.			
4	Power Gradient Set the active power change slope.				
Reactive Dispatching Response Mode					
F	DT 1 Debayier	Realize reactive scheduling based on the first-order LPF curve			
5	PI-I Benavior	within the response time constant.			
c	DT 1 Debayier Tau	Set the time constant within which the reactive power changes			
0	PI-I Bellavior Tau	based on the first order LPF curve.			
7	Gradient Control	Realize reactive scheduling based on the power change slope.			
8	Power Gradient	Set the reactive power change slope.			

3.11 Setting Safety Parameters (Installer)

NOTICE						
The parameters vary depending on the safety country or region.						
Settings	< Advanced Settings	Safety Parameters				
品 Communication Settings	Remote Shutdown	Active Curve Settings				
Pasis Cattings	DRED	Reactive Curve Settings				
	RCR	Protection Parameters >				
Advanced Settings	PID Function	Connection Parameters				
¢ Ŷ Load Control >	PID Repair	Voltage Ride Through				
U Power on/off >	Power Limit	Frequency Ride Through				
Firmware Information	N DE Vellage Detection					
Change Login Password >	N-PE Voltage Detection 2					
	DC AFCI Detection					
	Power Scheduling Response > Parameters					
	Safety Parameters					
Home Parameters	Export >					

3.11.1 Setting the Active Curve

3.11.1.1 Setting the P(F) Curve

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Active Curve Settings to set the parameters.

Step 2 Enable P(F) Curve (Frequency Power Curve).

Step 3 Set the parameters based on actual needs. Tap 🗸 to complete the settings.



No.	Parameters	Description
1	P(F) Curve (Fre- quency Power Curve)	Enable P(F) Curve when it is required by local grid standards and requirements.
Overfre	quency Unloading	
2	Overfrequency Threshold	The inverter output active power will decrease when the utility grid frequency is too high. The inverter output power will decrease when the utility grid frequency is higher than Overfrequency Threshold .
3	Overfrequency Endpoint	The inverter output active power will decrease when the utility grid frequency is too high. The inverter output power will stop decreasing when the utility grid frequency is higher than Overfrequency Endpoint .
4	Power Reference	Adjust the inverter output power based on Apparent Active Power, Rated Active Power, Momentary Active Power, Or Max. Active Power.
5	Power Response To Overfrequency Gradient	The inverter output active power will decrease when the utility grid frequency is too high. Indicates the slope when the inverter output power decreases.
6	Tentional Delay Ta	Indicates the delayed response time when the inverter output power is higher than the Overfrequency Threshold .
7	Hysteretic Power Recovery Slope	Indicates the variation slope when the power recovers.
Underfr	equency Loading	
8	Underfrequency Threshold	The inverter output active power will increase when the utility grid frequency is too low. The inverter output power will increase when the utility grid frequency is lower than Underfrequency Threshold .
9	Underfrequency Endpoint	The inverter output active power will increase when the utility grid frequency is too low. The inverter output power will stop increasing when the utility grid frequency is lower than Underfrequency Endpoint .
10	Power Reference	Adjust the inverter output power based on Apparent Active Power, Rated Active Power, Momentary Active Power, Or Max. Active Power.
11	Power Response to Underfrequency Gradient	The inverter output active power will increase when the utility grid frequency is too low. Indicates the slope when the inverter output power increases.
12	Tentional Delay Ta	Indicates the delayed response time when the inverter output power is lower than the Underfrequency Threshold .
13	Hysteretic Power Recovery Slope	Indicates the variation slope when the power recovers.

3.11.1.2 Setting the P(U) Curve

When the grid voltage is too high, decrease the inverter output power to decrease the grid-tied power.

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Active Curve

Settings to set the parameters.

Step 2 Enable P(U) Curve (Voltage Power Curve).

Step 3 Set the parameters based on actual needs. Tap \checkmark to complete the settings. 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.



No.	Parameters	Description		
1	P(U) Curve	Enable P(U) Curve when it is required by local grid standards and requirements.		
2	Vn Voltage	The percentage of actual voltage to the rated voltage at Vn point, n=1, 2, 3, 4. For example, setting Vn Voltage to 90 means V/V _{ented} %=90%.		
3	Vn Active Power	The percentage of the output active power to the apparent power at Vn point, (n=1, 2, 3, 4). For example, setting Vn Active Power to 48.5 means P/P_{rated} % =48.5%		
4	Output Response Mode	 Set the active power output response mode. Supports: Disable PT-1 Behavior, realize active scheduling based on the first-or- der LPF curve within the response time constant. Gradient Control, realize active scheduling based on the power change slope. 		
5	PT-1 Behavior Tau	Set the time constant within which the active power changes based on the first order LPF curve when the Output Response Mode is set to be PT-1 Behavior .		
6	Power Gradient	Set the active power change slope when the Output Response Mode is set to be Gradient Control .		

3.11.2 Setting the Reactive Curve

3.11.2.1 Setting the Q(U) Curve

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Reactive Curve Settings to set the parameters.

Step 2 Select Q(U) Curve.

Step 3 Set the parameters based on actual needs. Tap \checkmark to complete the settings. The inverter will adjust the reactive output power to the apparent power ratio in real time according to the actual grid voltage to the rated voltage ratio.



No.	Parameters	Description
1	Q(U) Curve	Enable Q(U) Curve when it is required by local grid standards and requirements.
2	Vn Voltage	The percentage of actual voltage to the rated voltage at Vn point, n=1, 2, 3, 4. For example, setting Vn Voltage to 90 means V/V _{rated} %=90%.
3	Vn Reactive Power	The percentage of the reactive output power to the apparent power at Vn point, n=1, 2, 3, 4. For example, setting Vn Reactive Power to 48.5 means Q/ S_{rated} %=48.5%
4	Time Constant	The power is required to reach 95% in the first order LPF curve within three time constant.
5	Lock-In Power	When the inverter output reactive power to the rated power ratio is
6	Lock-out Power	curve requirements.

3.11.2.2 Setting the Cosφ(P) Curve

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Reactive Curve

Settings to set the parameters.

Step 2 Select **Cosφ(P) Curve**.

Step 3 Set the parameters based on actual needs. Tap v to complete the settings. 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.



No.	Parameters	Description
1	Cosφ(P) Curve	Enable $Cos\phi$ Curve when it is required by local grid standards and
		requirements.
2	Point A/B/C/D	The percentage of the inverter output active power to the rated
	Power	power at point A/B/C.
3	Point A/B/C/D Cosφ	The power factor at point A/B/C.
4	Time Constant	The power is required to reach 95% in the first order LPF curve
		within three time constant.
5	Lock-in Voltage	When the grid voltage is between Lock-in Voltage and Lock-out
6	Lock-out Voltage	Voltage, the voltage meets Cosø curve requirements.

3.11.2.3 Setting the Q(P) Curve

Step 1 Tap **Home > Settings > Advanced Settings > Safety Parameters > Reactive CurveSettings** to set the parameters.

Step 2 Select Q(P) Curve.

Step 3 Set the parameters based on actual needs. Tap \checkmark to complete the settings. The inverter will adjust the reactive output power to the apparent power ratio in real time according to the actual grid voltage to the rated voltage ratio.



No.	Parameters	Description
1	Q(P) Curve	Enable Q(P) Curve when it is required by local grid standards and requirements.
2	Pn Reactive Power	The percentage of the output reactive power to the rated power at Pn point, n=1, 2, 3, 4, 5, 6. For example, setting Pn Active Power to 90 means Q/P _{rated} %=90%.
3	Pn Power	The percentage of the output active power to the rated power at Pn point, n=1, 2, 3, 4, 5, 6. For example, setting Pn Power to 90 means P/P _{rated} %=90%.
4	Time Constant	The power is required to reach 95% in the first order LPF curve within three time constant.
3.11.3 Setting Protection Parameters

NOTICE

Set the safety parameters in compliance with local requirements. Do not change the parameters without the prior consent of the grid company.

3.11.3.1 Setting Voltage Protection Parameters

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Protection Parameters to set the parameters.

Step 2 Set the parameters based on actual needs. Tap 🗸 to complete the settings.

No.	Parameters	Description	
1	OV Stage n Trip Value	Set the grid overvoltage protection threshold value.	
2	OV Stage n Trip Time	Set the grid overvoltage protection tripping time.	
3	UV Stage n Trip Value	Set the grid undervoltage protection threshold value.	
4	UV Stage n Trip Time	Set the grid undervoltage protection tripping time.	
5	10Min Overvoltage Trip Threshold	Set the 10min overvoltage protection threshold value.	
6	10Min Overvoltage Trip Time	Set the 10min overvoltage protection tripping time.	

3.11.3.2 Setting Frequency Protection Parameters

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Protection Parameters to set the parameters.

Step 2 Set the parameters based on actual needs. Tap 🗸 to complete the settings.

No.	Parameters	Description
1	OF Stage n Trip Value	Set the grid overfrequency protection threshold value.
2	OF Stage n Trip Time	Set the grid overfrequency protection tripping time.
3	UF Stage n Trip Value	Set the grid underfrequency protection threshold value.
4	UF Stage n Trip Time	Set the grid underfrequency protection tripping time.

3.11.4 Setting Connection Parameters

Step 1 Tap **Home > Settings > Advanced Settings > Safety Parameters > Connection Parameters** to set the parameters.



No.	Parameters	Description	
Ramp	Ramp Up		
1	Upper Voltage	The inverter cannot connect to the grid if it is powered on for the first connection and the grid voltage is higher than the Upper Voltage .	
2	Lower Voltage	The inverter cannot connect to the grid if it is powered on for the first connection and the grid voltage is lower than the Lower Voltage .	
3	Upper Frequency	The inverter cannot connect to the grid if it is powered on for the first connection and the grid frequency is higher than the Upper Frequency .	
4	Lower Frequency	The inverter cannot connect to the grid if it is powered on for the first connection and the grid frequency is lower than the Lower Frequency .	
5	Observation Time	The waiting time for connecting the inverter to the grid when meeting the following requirements.1. The inverter is powered on for the first connection.2. The utility grid voltage and frequency meet certain requirements.	
6	Soft Ramp Up Gradient	Indicates the percentage of incremental output power per minute based on the local requirements when the inverter is powered on for the first time. For example, setting Soft Ramp Up Gradient to 10 means the start-up slope is 10%P _{rated} /min.	
Recon	nection		
7	Upper Voltage	The inverter cannot connect to the grid if it is reconnecting due to a fault and the grid voltage is higher than the Upper Voltage .	

No.	Parameters	Description		
8	Lower Voltage	The inverter cannot connect to the grid if it is reconnecting due to a fault and the grid voltage is lower than the Lower Voltage .		
9	Upper Frequency	The inverter cannot connect to the grid if it is reconnecting due to a fault and the grid frequency is higher than the Upper Frequency .		
10	Lower Frequency	The inverter cannot connect to the grid if it is reconnecting due to a fault and the grid frequency is lower than the Lower Frequency .		
11	Observation Time	The waiting time for connecting the inverter to the grid when meeting the following requirements.1. The inverter is reconnecting to the grid due to a fault.2. The utility grid voltage and frequency meet certain requirements.		
12	Reconnec- tion Gradi- ent	Indicates the duration for the output power increases to the rated power when the inverter reconnects to the utility grid due to a fault.		

3.11.5 Setting Voltage Ride Through Parameters

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Voltage Ride Through to set the parameters.

Step 2 Enable **LVRT** or **HVRT** and set the parameters based on actual needs. Tap \checkmark to complete the settings.

No.	Parameters	Description	
LVRT			
1	UVn Voltage	The ratio of the ride through voltage to the rated voltage at UVn point during LVRT.	
2	UVn Time	The ride through time at UVn point during LVRT.	
3	Enter Into LVRT Thresh- old	The inverter will not be disconnected from the utility grid immediately when the grid voltage is between Enter Into LVRT	
4	Exit LVRT Endpoint	Threshold and Exit LVRT Endpoint.	
5	Gradient K1	K-factor for reactive power during LVRT.	
6	Zero Current Mode	The system outputs zero current during LVRT.	
7	Entry Thresh- old	Set the entry threshold of zero current mode.	
HVRT			
6	OVn Voltage	The ratio of the ride through voltage to the rated voltage at OVn point during HVRT.	

No.	Parameters	Description	
7	OVn Time	The ride through time at OVn point during HVRT.	
8	Enter High Crossing Threshold	The inverter will not be disconnected from the utility grid	
9	Exit High Crossing Threshold	Threshold and Exit High Crossing Threshold.	
10	Slope K2	K-factor for reactive power during HVRT.	
11	Zero Current Mode	The system outputs zero current during HVRT.	
12	Entry Thresh- old	Set the entry threshold of zero current mode.	
13	Current Distribution Mode	Set the current distribution mode. Supports: Constant Current Mode, Reactive Current Priority Mode, and Active Current Priority Mode.	
14	Active Power Recovery Mode After Crossing	Set the active power recover mode after LVRT or HVRT. Supports: Disable, Gradient Control, or PT-1 Behavior.	
15	Power Gra- dient	Realize active power recovery based on the power change slope.	
16	PT-1 Behavior Tau	Set the time constant within which the active power changes based on the first order LPF curve.	
17	Traversing The End Of Reactive Pow- er Recovery Mode	Set the active power recover mode after LVRT or HVRT. Supports: Disable, Gradient Control, or PT-1 Behavior.	
18	Power Gra- dient	Realize active power recovery based on the power change slope.	
19	PT-1 Behavior Tau	Set the time constant within which the reactive power changes based on the first order LPF curve.	

3.11.6 Setting Frequency Ride Through Parameters

Step 1 Tap **Home > Settings > Advanced Settings > Safety Parameters > Frequency Ride Through** to set the parameters.

Step 2 Enable **Frequency Ride Through** and set the parameters based on actual needs. Tap **v** to complete the settings.

No.	Parameters	Description	
1	UFn Frequency	The frequency at the UFn point during frequency ride through.	
2	UFn Time	The ride through duration at the UFn point during frequen- cy ride through.	
3	OFn Frequency	The frequency at the OFn point during frequency ride through.	
4	OFn Time	The ride through duration at the OFn point during frequen- cy ride through.	

3.12 Exporting Safety Parameters

Only for some inverter models in specific regions or countries.

Step 1 Tap Home > Settings > Advanced Settings > Export.



Settings	< Advanced Settings	<	C Parameter	Export
器 Communication Settings >	Remote Shutdown		Parameter Export	Export Records
Basic Settings	DRED		Safety Parameters	
	RCR			
Advanced Settings	PID Repair			
♦♦ Load Control >	Deuxer Limit			
U Power on/off >				
Firmware Information	N-PE Voltage Detection	>		
Change Login Password	DC AFCI Detection	>		
	Power Scheduling Response Parameters	>		
	Safety Parameters	>		
	Export			
Home Parameters			Expor	t

3.13 Powering ON/OFF the Inverter

Step 1 Tap Home > Settings > Advanced Settings > Power on/off.

Step 2 Tap Start, Restart or Stop to control the inverter.



3.14 Setting PV Access Mode

Select the PV access mode based on the actual connections between the PV strings and MPPT ports of the inverter.

Step 1 Tap Home > Settings > Advanced Settings > PV Access Mode to set the parameters.

Step 2 Set the access mode to **Stand-alone Connect**, **Partial Parallel Connect** or **Parallel Connection** based on actual connections. Tap **Save** to complete the settings.

Settings	< Advanced Settings	< PV Connect Mode
品 Communication Settings >	Remote Shutdown	Stand-alone Connect
(6) Basic Settings	RCR	
Advanced Settings	PID Repair	
¢ ∳ Load Control >	Power Limit	
(り Power on/off >	N-PE Voltage Detection	> Parallel Connect
Firmware Information >	AFCI Test	The device can identify the PV connect method. This function is an auxiliary function.
← Change Login Password >	Power Scheduling Response Parameters	>
	Safety Parameters	>
	PV Connect Mode	
Home Parameters		

No.	Parameters	Description	
1	Stand-alone Connect	The PV strings are connected to the MPPT terminals one by one.	
2	Partial Parallel Connect	The PV strings are connected to the inverter in both stand- alone and parallel connection. For example, one PV string connect to MPPT1 ad MPPT2, another PV string connect to MPPT3.	
3	Parallel Connect	The external PV string is connected to multi MPPT terminals of the inverter.	

3.15 Settting the Load Control

Loads can be controlled by SolarGo app when the inverter supports load control function.

Step 1 Tap **Home** > **Settings** > **Load Control** to set the parameters.

Step 2 Enable Load Control.

Step 3 Set the control mode based on actual needs. Supports: Dry Contact Mode, Time Mode,

Power Settings Mode.



- **Dry Contact Mode**: when the switch is ON, the loads will be powered; when the switch isOFF, the power will be cut off. Turn on or off the switch based on actual needs.
- **Time Mode**: set the time to enable the load, and the load will be powered automatically within the setting time period.

No.	Parameters	Description	
1	Start Time	The time mode will be an between the start time and and time	
2	End Time	The time mode will be on between the start time and end time	
3	Repeat	The repeat days.	

• **Power Settings Mode**: Set **Inverter Output Power**, the inverter will power the loads when the actual output power of the inverter excess the **Inverter Output Power**.

3.16 Change the Login Password

NOTICE

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.

Step 1 Tap Home > Settings > Change Login Password, to change the password.

Step 2 Change the password based on actual needs.



3.17 Upgrading the Firmware

NOTICE

- Upgrade the DSP version, ARM version of the inverter , or firmware version of the communication module. Some devices do not support upgrading the firmware version through SolarGo app.
- If the Firmware Upgrade dialog box pops up once logging into the app, click **Firmware Upgrade** to directly go to the firmware information page.



Type I

Local Upgrade Requirements:

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

Step 1 Tap Home > Settings > Firmware Upgrade to check the firmware version.

Step 2 Tap ••• > **Upload Firmware** to import local upgrade patch. Tap **Upgrade** and follow the prompts to complete the upgrading.

Step 3 (Optional) Tap ••• > **Update Record** to check firmware upgrade records.

Type II

NOTICE

- When prompted by a red dot on the right of the **Firmware Information**, click to get the firmware update information.
- During the upgrade process, ensure that the network is stable and the device remains connected to SolarGo, otherwise the upgrade may fail.

Step 1 Tap **Home > Settings > Firmware Upgrade** to check the firmware version.

Step 2 (Optional) Tap Check For Update to check whether there is a latest version to be updated.

Step 3 Tap Firmware Upgrade as prompted to enter the firmware upgrade page.

Step 4 (Optional) Tap Learn More to check the firmware related information, such as **Current Version**, **New Version**, **Update Record**, etc.

Step 5 Tap **Upgrade** and follow the prompts to complete the upgrading.

Type III

NOTICE

- The automatic upgrade function is allowed only when a WiFi/LAN Kit-20 or WiFi Kit-20 module is applied, and the module firmware version is V2.0.1 and above.
- After enabling the auto-upgrade function, if there is any update and the device is connected to the network, the corresponding firmware version can be automatically upgraded.

Step 1 Tap Home > Settings > Firmware Upgrade to check the firmware version.

Step 2 Tap O or O to enable or disable the **Automatic Upgrade**.

3.18 Setting the Power-Limited Parameters(Parallel Connected Inverters)

- If the power generated by the PV system cannot be consumed by loads, the remaining power will be fed into the utility grid. Control the power fed into the grid by setting the **Power-Lim**ited Grid-Connected parameters.
- Only applicable to parallel system with multiple inverters.

Step 1 Connect the master inverter in the parallel system. Tap **Home** > **Settings** > **Power-Limited Grid-Connected** to set the parameters.

Step 2 Enable **Power-Limited Grid-Connected**, enter parameters based on actual needs. Tap **Submit** to complete settings.

V Power-Limited Grid-Con	< Power-Limited Grid-Connected			
Power-Limited Grid-Connected				
Power-Limited Type				
 Total Power 	Split Powe	Phase er		
System Installed Capacity	0	0		
Range:[0,5600]kW				
Power Limit	0	0		
[Power Limit] must be within the range Installed Capacity]. Example: If the [System Installed Capac 1000kW, the [Power Limit] range is [-10	of the city] is 000,10	Set to (00] kW.		
Power Limit Offset Value	0	0		
Range:[-2000,2000]kW				
Power Regulation Period	0	0		
Range:[0,30000]ms				
Maximum Protection Time	0	0		
Range:[0,60]s				
Handling Protection Exceptions				
 Shutdown 	Powe	er Limit		
Range:[0,100]%	0	0		
Meter Communication Exception Handling				
Inverter Communication Exception Handling	on			
External CT Ratio	0	0		
Range[10,5000] 1. If the current of the primary side and secondary side of the selected CT is 3000A:5A, please enter the CT ratio value of 600, and so on. Note: The secondary current of CT should be ≤5A.				
Only the CT ratio of the electric meter GM330/ GM3000C can be set. For other models (such as GM3000), it is forbidden to set the CT ratio, otherwise the electric meter cannot work normally.				
Submit				

No.	Parameters	Description
1	Power-Limited Type	 Select the output power control mode based on actual situation. Total power: controls the total power at the grid-connection point to limit the power fed to the power grid. Split-phase power: controls the power of each phase at the grid-connection point to limit the power fed to the power grid.
2	System Installed Ca- pacity	Set the total capacity of all inverters in the system.
3	Power Limit	Set the maximum power that is allowed feed into the utili- ty grid based on local grid standards and requirements.
4	Power Limit Offset Value	Set the adjustable range of the maximum power that is allowed feed into the utility grid.
5	Power Regulation Period	Set the minimum interval for adjusting the inverter power.
6	Maximum Protection Time	 According to the standards and requirements of some countries or regions, the power feed into the utility grid is allowed to exceed the limit value within a specified duration. Set the maximum duration from the time when detecting excessive output power to the time when output power reaches the limit value.
7	Handling Protection Exceptions	The following measures can be taken when protection exception, communication exception or meter communi-
8	Meter Communication Exception Handling	cation exception occurs: • Shutdown: stop the equipment.
9	Inverter Communica- tion Exception Handling	Power Limitation: the equipment continues to work at the percentage of the rated power.
10	Inverter Communica- tion Timeout Setting	The protective measures will be taken when the commu- nication exception time exceeds the set time.
11	External CT Ratio	Set the ratio of the primary current to the secondary current of the external CT.

4 App Operations for Hybrid Inverters

NOTICE

- All the user interface (UI) screenshots or words in this document are based on SolarGo app V6.0.0. The UI may be different due to the version upgrade. The screenshots, words or data are for reference only.
- The method to set parameters is the same for all inverters. But the parameters displayed varies based on the equipment model and safety code. Refer to the actual interface display for specific parameters.
- Before setting any parameters, read through user manual of the app and the inverter or charger 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 in compliance with related requirements and damage the battery, which will affect the inverter's power generation.

4.1 Log In as Hybrid Inverter

Step 1 Ensure that the inverter is power on, both the inverter and the communication module are working properly.

Step 2 Tap **Bluetooth** or **WLAN** tab on the homepage of SolarGo app based on the communication method.

Step 3 (optional): If you choose to connect the device via WiFi, open the WiFi settings of your phone first and connect to the inverter's WiFi signal (Solar-WiFi***). Default password: 12345678.

Step 4 Pull down or tap **Search Device** to refresh the device list. Find the device by the the inverter serial number. Tap the device name to log in. Select the device by checking the serial number of the master inverter when multi inverters are parallel connected.

Step 5(optional) For first connection with the device via Bluetooth, there will be a Bluetooth pairing prompt, tap **Pair** to continue the connection.

Step 6 Log in as an Owner or an Installer. Initial password: 1234.

Step 7 (optional) If connecting via Solar-WiFi***, modify the initial WiFi password following the prompts. If connecting via WLA-*** or WFA-***, modify the initial login password following the prompts.

Step 8 (Optional) If connecting via WLA-*** or WFA-***, enable **Bluetooth Stays On** following the prompts as entering the device details page. Otherwise, the bluetooth signal of the device will be off after disconnection..

Connecting the inverter via WLAN

NOTICE

- If the SolarGo app version is upgraded to V5.6.2 or later, a **Reminder** will pop up every time you connect to the inverter via WLAN to prompt you to change the password. If you want to permanently close the pop-up window, tap **Never Show Again**.
- If you forget the new password, reset the password by the smart dongle or the LCD of the inverter. Restore the dongle to reset the password will loss network configurations before.

Device List	in (* 100 in 100	Device List	?	Device List	in (?) in
Bluetooth	WLAN	Bluetooth	WLAN	Bluetooth	WLAN
		3 	05		
		WLAN: 1.Please turn on WL/ 2.Find Solar-WiFiXX3 (XXXXXXXX is the la the inverter SN). 3.Enter the default p	IN. (XXXXX st 8 characters of assword: 12345678.	ক্ন Solar-	C22CW2714 >
	•••	4.Return to App and Device] to refresh th	click button [Search e list.	🔿 Solar-	× 1990
No De	evice	Cancel	Sure	🔿 Solar-	
2 Search	Device	< Settings WL WLAN	AN Edit	Search	Device
	Not Found >				Not Found >
Status:Fault	1000	< Privacy &	& Security	K WLAN Module P	
	Unit:kW	WLAN Module Passwor	d Change		
Rem 1.To the privacy ar device, please go WLAN module par 2. Please make su the new password If you forget the p not be able to retr 3.If you forget to p you forget the p can reset the mod	000 inder and change the savord, after the change. after the change. assword, you will leve it. r password, you ulue and restore it sword (the default	 Please make sure to re password after the chang password, you will not be 2.If you forget your passy module and restore it to 1 default password for the 12345678). Note: Resetting the module module to return to facto network configuration to 	member the new p. If you forget the able to retrieve it. vord, you can reset the he default password (the WLAN module is ule will cause the WLAN ry settings and require be reconfigured.	No Rem The password for the been successfully of the [Settings] - [WL your phone and rec module 1. Please turn on yo	tinder le WLAN module has hanged. Please go to ANJ interface on onnect to the WLAN ur mobile WLAN.
Grid password for the 1 12345678). TT C Note: Resetting th cause the WLAN in to factory settings network configured.	WLAN module is the module will module to return s and require tion to be	K WLAN Module Particular Strength Control of the second	password C Save	2. Search for Solar' (XXXXXXX is the I inverter SN). 3. Enter the modifie 4. Return to the app Device' button, and	MFFXXXXXXXX ast 8 bits of the d password. n, click the 'Search refresh the list.
Skip	5 Setting	Please enter new pas	sword again 🛛 💿		ж
Never Sh Met Communication Failure	ow Again	Note: 8-16 characters, numbers, or uppercase (_, 0-9, a-z, A-Z)	can be underscores, and lowercase letters		
Home Paran	eters Settings				

04 App Operations for Hybrid Inverters

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4.2 GUI Introductions to Hybrid Inverters



No.	Name/Icon	Description
1	Serial Number	Serial number of the connected inverter.
2	Device Status	Indicates the status of the inverter, such as Working,Fault , etc.
3	Energy Flow Chart	Indicates the energy flow chart of the PV system. The actual page prevails.
4	System Status	Indicates the system status, such as Safety Code , Working Mode , Battery Model , Battery Status , Power Limit , Three-Phase Un- balanced Output , etc
5	A	Home Tap Home to check Serial Number, Device Status, Energy Flow Chart, System Status, etc.
6	Ē	Parameters Tap Parameters to check the inverter Data, like SN, FW Version, Output(On-Grid), Import Power, Import Total Power, Battery Mode, Battery Capacity, Battery Status, Charge/Discharge Current Limit, etc Or check Alarm like Utility Loss, Undervoltage, etc
7	\odot	Settings Tap Settings to set the Working Mode, Safety Code, Pv Connect Mode, Battery Connect Mode, SPD, Power Limit, AFCI Detect, DRED/Remote Shutdown/RCR, Three-Phase Unbalance, Battery Function Settings, Load Control, Communication Set- tings, Shadow Scan, Upgrade Firmware, etc

4.3 Configuring Communication Parameters

NOTICE

The communication configuration page varies depending on the communication method.

4.3.1 Setting Privacy and Security

Type I

Step 1 Tap **Home** > **Settings** > **Communication Setting** > **Privacy & Security** to set the parameters.

Step 2 Set the new password for the WiFi hotspot of the communication module, and tap Save.

Step 3 Open the WiFi settings of your phone and connect to the inverter's WiFi signal (Solar-WiFi***) with the new password.

Settings	< Communication Settings	< Privacy & Security
品 Communication Settings	Privacy & Security	WLAN Module Password Change
	WLAN/LAN >	1. Please make sure to remember the new password after the change. If you forget the
Basic Settings >	4G >	2.If you forget your password, you can reset the module and restore it to the default password (the default password for the WI AN module is
Advanced Settings >	RS485 >	12345678). Note: Resetting the module will cause the WLAN module to return to factory settings and require
¢ ∮ Load Control >		network configuration to be reconfigured.
() Power on/off >		
Firmware Information		
Change Login Password		
Itome Parameters Carton ✓ WLAN Module Password C Save ✓ WLAN Module Password C Save Please enter the new password Image: Compare the password of the passw	WLAN Module Password C Save	
	been successfully changed. Please go to the (Settings) - (WLAN) interface on your phone and reconnect to the WLAN module 1. Please turn on your mobile WLAN. 2. Search for Solar WiFi XXXXXXXX (XXXXXXX is the last B bits of the inverter SN). 3. Enter the modified password. 4. Return to the app, click the 'Search <u>Device' button, and refresh the list.</u> OK	

Type II

Step 1 Tap **Home** > **Settings** > **Communication Setting** > **Privacy & Security** to set the parameters.

Step 2 Enable Bluetooth Stays On or WLAN Control based on actual needs.

Settings	< Communication Settings	<	Privacy & Security
	Privacy & Security	Bluetooth	
Communication Settings		Bluetooth Sta	ys On continuously access devices
	WLAN/LAN	> through Bluetoo OFF:The APP will through Bluetoo	h. I not be able to access the device h. If the APP cannot search for the
Quick Settings	4G	> Bluetooth signal > "RELOAD" butto turn on the Bluet connect to the d	of the device, please double-click the n on the communication module to ooth signal, and use the APP to evice within 5 minutes.
Basic Settings >	RS485	> WLAN	
Advanced Settings >		WLAN Contro ON:The APP can local area netwo	connect devices through the WLAN rk of the communication module.
♦ Port Connection >		OFF:The APP ca WLAN local area module.	nnot connect to the device through the network of the communication
Meter/CT-Assisted Test		Modbus TCP	
		Modbus TCP	v platform that can access inverter
Firmware Information		information throu contact after-sal	es service to obtain the agreement.
(i) APP Version V5.6.0			
Home Parameters Settings			

No.	Parameters	Description
		Disabled by default. Enable the function, the bluetooth of the
1	Rhuotooth Stave On	device will be contentious on to keep connected to SolarGo.
1	Bidelooth Stays On	Otherwise, the bluetooth will be off in 5 minutes, and the
		device will be disconnected from SolarGo.
2	WLAN Control	Disabled by default. Enable the function, the device and the
		SolarGo can be connected through the WLAN when they are
		on the same LAN. Otherwise, they cannot be connected even if
		they are on the same LAN.
3	Madbus TCD	Enable the function, the third party monitoring platform can
	Modbus-ICP	access inverter through Modbus-TCP communication protocol.

Type III

Step 1 Tap **Home** > **Settings** > **Communication Setting** > **Privacy & Security** to set the parameters.

Ster) 2	Enable	Bluetooth	Stavs	On or	Login	Password	based	on actual	needs.
	-	LIIGDIC	Diaccootii		011 01			Sasca	on accaai	necas.

Settings	< Communication Settings	C Privacy & Security
	Privacy & Security	Bluetooth
Communication Settings	WI AN/I AN	Bluetooth Stays On ON:The APP can continuously access devices
Quick Settings	4G	through Bluetooth. OFF:The APP will not be able to access the device through Bluetooth. If the APP cannot search for the Bluetooth signal of the device, please double-click the "RELOAD" button on the communication module to turn on the Bluetooth signal, and use the APP to
Basic Settings	RS485	Login Password
		ON:Connecting the device need to enter the login password.
Image: Port Connection >		OFF: Connecting the device needn't to enter the login password. If turned off and then turned on, the password is reset to the initial password: 1234.
Meter/CT-Assisted Test		
Firmware Information		
(i) APP Version V5.6.0		
Home Parameters Settings		

No.	Parameters	Description
	Bluetooth Stays On	Disabled by default. Enable the function, the bluetooth of the
1		device will be contentious on to keep connected to SolarGo.
		Otherwise, the bluetooth will be off in 5 minutes, and the
		device will be disconnected from SolarGo.
2	Login Password	Disabled by default. Enable the function, you will be prompted
		to enter the login password when connecting the device to
		SolarGo. Use the initial password and change it at the first
		login prompt.

• Disable DHCP when a switch is used or the router is in static

• Do not configure the parameters when DHCP is enabled.

information when DHCP is disabled.

• Configure the parameters according to the router or switch

4.3.2 Configuring Network

DHCP

IP Address

Subnet Mask

DNS Server

Gateway Address

3

4

5

6

7

The communication configuration page varies depending on the communication method.

Step 1 Tap **Home > Settings > Communication Settings > Network Settings** to set the parameters.

•	·	
No.	Parameters	Description
1	Network Name	Only for WLAN. Select WiFi based on the actual connecting.
2	Password	Only for WLAN. WiFi password for the actual connected network.
		• Enable DHCP when the router is in dynamic IP mode.

IP mode.

Step 2 Set the **WLAN** or **LAN** parameters based on actual situation.

Settings	< Comn	nunication Settings	<	WLAN/LAN	Save
	WLAN/LAN		Encrypt	ion Type	
Communication Settings	→		WPA2/	WPA	\sim
	4G		Passwo	rd	
Quick Settings	RS485		2		*
· · · · · · · · · · · · · · · · · · ·			DUCD		
Basic Settings >			If you ne	ed to set a specific IP add	ress, you can
			manuali	y enter it after turning off i	JHCP.
			IP Addr	ess	172.18.0.112
V Port Connection			Subnet	Mask	255.255.255.0
Meter/CT-Assisted Test			Gatewa	y Address	172.18.0.1
Firmware Information			DNS Se	rver	172.18.0.1
0			LAN		Not Connected
APP Version V5.6.0			LAN		Not connected
			Restore	factory communication	n settings
Home Parameters Settings					

4.3.3 Configuring APN Parameters

Configure the SIM card information of 4G communication device.

Step 1 Tap **Home > Settings > Communication Settings > 4G**, to set the parameters.

Step 2 Set the region and operator based on actual needs.

Settings	Communication Settings	<	4G	Save
G田 Communication Settings	WLAN/LAN	APN Info Area:Americar Operator:ATT APN Name:NX	IGENPHONE	e e
\mathcal{P} Quick Settings $>$	RS485 >	Select area and American	l operator	^
Basic Settings >		ATT T-Mobile		0
Advanced Settings		Australia		
¢ ♀ Port Connection >		Europe		\sim
Meter/CT-Assisted Test		Netherlands		\sim
Firmware Information				
(i) APP Version V5.6.0				
Home Parameters				

4.3.4 Configuring RS485 Parameters

NOTICE

Set the communication address of the inverter. For a single inverter, the address is set based on actual needs. For multi connected inverters, the address of each inverter should be different while cannot be 247.

Step 1 Tap **Home > Settings > Communication Settings > RS485** to set the parameters.

Step 2 Set the Modbus Address And Baud Rate base on actual situation.

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Settings	< Communication Settings	< RS485
Communication Settings	WLAN/LAN 4G	COM Address 241 Range(1, 247] Range(1, 247)
₽ Quick Settings >	RS485	9600 V
Basic Settings >		
Image: Advanced Settings >		
♦ Port Connection >		
Refer /CT-Assisted Test		
Firmware Information		
(i) APP Version V5.6.0		
Home Parameters		

4.3.5 WLAN Detection

Step 1 Tap **Home > Settings > Communication Settings > WLAN Detection**.

Step 2 Tap Diagnosis to check the network connection status.

Settings	< Communication Settings	WLAN Detection
Communication Settings	WLAN/LAN > WLAN Detection >	
	4G >	
	RS485 >	
Basic Settings >		
Advanced Settings		Please configure the inverter to ensure successful connection with router then click the "Start Diagnosis" button to diagnose
♦ Port Connection >		the Start Diagnosis Dutton to diagnose
K Meter/CT-Assisted Test		
Firmware Information		
(i) APP Version V5.6.0		
		Diagnosis
Home Parameters		

4.4 Setting the Wiring Method

NOTICE

- Only for ET40-50kW series inverters.
- Do not set the Wiring Method if the inverter is installed for the first time and only one inverter is applied.

Step 1 Tap Home > Settings > Wiring Method.

Step 2 If the system is a single inverter system, select **Device Stand-Alone Workking**. If the system is a parallel system with multiple inverters, select **Multiple Device Parallel Working**.

Step 3 Tap Save to complete the settings, and tap Confirm to restart the device.



4.5 Quick Setting the Basic Information

NOTICE

The setting page varies depending on inverter model.

Type I

NOTICE

- The parameters will be configured automatically after selecting the safety country/region, including overvoltage protection, undervoltage protection, overfrequency protection, underfrequency protection, voltage/frequency connection protection, cosφ curve, Q(U) curve, P(U) curve, FP curve, HVRT, LVRT, etc. Tap Home > Settings > Advanced Settings > Safety Parameters to check the parameters after selecting the safety country.
- The power generation efficiency is different in different working modes. Set the working mode according to the local requirements and situation.
- Back-up mode, Economic mode, and Smart charging mode can be enabled at the same time.
 - Self-use mode:
 - **Back-up mode:** The back-up mode is mainly applied to the scenario where the grid is unstable. When the grid is disconnected, the inverter turns to off-grid mode and the battery will supply power to the load; when the grid is restored, the inverter switches to grid-tied mode.
 - **Economic mode:** It is recommended to use economic mode in scenarios when the peak-valley electricity price varies a lot. Select Economic mode only when it meets the local laws and regulations. Set the battery to charge mode during Vally period to charge battery with grid power. And set the battery to discharge mode during Peak period to power the load with the battery.
 - **Smart charging:** In some countries/regions, the PV power feed into the utility grid is limited. Select Smart Charging to charge the battery using the surplus power to minimize PV power waste.
 - **Peak shaving mode:** Peak shaving mode is mainly applicable to peak power limited scenarios. When the total power consumption of the load exceeds the power consumption quota in a short period of time, battery discharge can be used to reduce the power exceeding the quota.

Step 1 Tap **Home** > **Settings** > **Quick Settings** to set the parameters.

Step 2 Enter the password for quick settings. Password: goodwe2010 or 1111.

Step 3 Select safety country accordingly. Tap Next to set the Battery Connect Mode.

Step 4 Select the actual mode in which the battery is connected to the inverter. The basic settings are completed if there is no battery connected in the system. Tap **Next** to set the Battery Model if there is any battery connected in the system.

Step 5 Select the actual battery model. Tap Next to set the Working Mode.

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Step 6 Set the working mode based on actual needs. Tap Next to conduct System Self-Test.

• If **Peakshaving** mode is selected, tap **Settings** to set the parameters.



No.	Parameters	Description	
Peakshav	/ing		
1	Start Time	The utility grid will charge the battery between Start Time and	
2	End Time	End Time if the load power consumption do not exceed the power quota. Otherwise, only PV power can be used to charge the battery.	
3	Peak Power Pur- chase Limit	Set the maximum power limit allowed to purchase from the grid. When the loads consume power exceed the sum of the power generated in the PV system and Peak Power Purchase Limit, the excess power will be made up by the battery.	
4	Reserved SOC For Peakshaving	In Peak Shaving mode, the battery SOC should be lower than Reserved SOC For Peakshaving . Once the battery SOC is higher than Reserved SOC For Peakshaving , the peak shaving mode fails.	

 When Self-Use Mode is selected, tap Settings to set the Depth Of Discharge(On-Grid) and Depth Of Discharge(Off-Grid). And tap Advanced Settings to set Back-Up Mode, Economic Mode or Smart Charging based on actual needs. If Economic Mode is selected, tap Add to set the working time and working mode of the battery group.

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No.	Parameters	Description	
Self-use r	node		
1	Depth Of Dis- charge(On-Grid)	The maximum depth of discharge of the battery when the system is working on-grid.	
2	Depth Of Dis- charge(Off-Grid)	The maximum depth of discharge of the battery when the system is working off-grid.	
Back-up i	mode		
3	Charging Power From Grid	Enable Charging Power From Grid to allow power purchasing from the utility grid.	
4	Rated Power	The percentage of the purchasing power to the rated power of the inverter.	
TOU mod	le		
5	Start Time	Within the Start Time and End Time, the battery is charged or	
6	End Time	discharged according to the set Battery Mode as well as the Rated Power.	
7	Charge Discharge Mode	Set the Battery Mode to Charging or Discharging accordingly.	

No.	Parameters	Description	
8	Rated Power	The percentage of the charging/discharging power to the ratedpower of the inverter.	
9	Charge Cut-off SOC	The battery stop charging/discharging once the battery SOC reaches Charge Cut-off SOC.	
Delayed	charging		
10	Monthly-Repeat	Set the smart charging months. More than one month can be set.	
11	Peak Power Sales Limit	Set the Peak Power Sales Limit in compliance with local laws and regulations. The Peak Limiting Power shall be lower then the output power limit specified by local requirements.	
12	PV Prioritizes Charing Battery		
13	Start Charging Time	burning charging time, the PV power will first charge the battery.	

Step 6 Execute device self-check or skip it based on actual needs.

Step 7 Tap **Recheck** or **Next** to complete the test based on your actual needs. Tap **Export** to export the test reports if needed.

Step 8 Tap Complete to complete the quick settings.



Type II

NOTICE

- The parameters will be configured automatically after selecting the safety country/region, including overvoltage protection, undervoltage protection, overfrequency protection, underfrequency protection, voltage/frequency connection protection, cosφ curve, Q(U) curve, P(U) curve, FP curve, HVRT, LVRT, etc. Tap Home > Settings > Advanced Settings > Safety Parameters to check the parameters after selecting the safety country.
- The power generation efficiency is different in different working modes. Set the working mode according to the local requirements and situation.
 - **Self-use mode:** Self-use mode is the basic working mode of the system. When the power generated in the PV system is sufficient, it will supply the loads in priority. The excess power will charge the batteries first, then the remaining power will be sold to the utility grid. When the power generated in the PV system is insufficient, the battery will supply the loads in priority. If the battery power is insufficient, the load will be powered by the utility grid.
 - **Back-up mode:** The back-up mode is mainly applied to the scenario where the grid is unstable. When the grid is disconnected, the inverter turns to off-grid mode and the battery will supply power to the load; when the grid is restored, the inverter switches to grid-tied mode.
 - **Economic mode:** It is recommended to use economic mode in scenarios when the peak-valley electricity price varies a lot. Select Economic mode only when it meets the local laws and regulations. Set the battery to charge mode during Vally period to charge battery with grid power. And set the battery to discharge mode during Peak period to power the load with the battery.
 - **Smart charging:** In some countries/regions, the PV power feed into the utility grid is limited. Select Smart Charging to charge the battery using the surplus power to minimize PV power waste.
 - **Peak shaving mode:** Peak shaving mode is mainly applicable to peak power limited scenarios. When the total power consumption of the load exceeds the power consumption quota in a short period of time, battery discharge can be used to reduce the power exceeding the quota.

Step 1 Tap Home > Settings > Quick Settings to set the parameters.

Step 2 Enter the password for quick settings. Password: goodwe2010 or 1111.

Step 3 Select safety country accordingly. Tap Next to set the Battery Connect Mode.

Step 4 Select the actual mode in which the battery is connected to the inverter. The basic settings are completed if there is no battery connected in the system. Tap **Next** to set the Battery Model if there is any battery connected in the system.

Step 5 Select the actual battery model. Tap **Next** to set the Working Mode.

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No.	Parameters	Description	
Back-up i	node		
1	Charging Power From Grid	Enable Charging Power From Grid to allow power purchasing from the utility grid.	
2	Charging Power	The percentage of the purchasing power to the rated power of the inverter.	
TOU mod	le		
3	Start Time	Within the Start Time and End Time, the battery is charged or	
4	End Time	discharged according to the set Battery Mode as well as the Rated Power.	
5	Charge or Dis- charge Mode	Set the battery mode to Charging or Discharging accordingly.	
6	Charge Cut-off SOC	The battery stop charging/discharging once the battery SOC reaches Charge Cut-off SOC.	
7	Rated Power	The percentage of the charging/discharging power to the rated power of the inverter.	
Peakshav	/ing		
8	Reserved SOC For Peakshaving	In Peak Shaving mode, the battery SOC should be lower than Reserved SOC For Peakshaving . Once the battery SOC is higher than Reserved SOC For Peakshaving , the peak shaving mode fails.	
9	Peak Power Pur- chase Limit	Set the maximum power limit allowed to purchase from the grid. When the loads consume power exceed the sum of the power generated in the PV system and Peak Power Purchase Limit, the excess power will be made up by the battery.	
10	Time for Charging From Grid	The utility grid will charge the battery between Start Time and End Time if the load power consumption do not exceed the power quota. Otherwise, only PV power can be used to charge the battery.	
Delayed Charging			
11	Peak Power Sales Limit	Set the Peak Power Sales Limit in compliance with local laws and regulations. The power limit shall be lower then the output power limit specified by local requirements.	
12	PV Prioritizes Charging Battery	During Charging time, the PV nower will first charge the batteny	
13 Start Charging Time		burning charging time, the PV power within st charge the battery.	

Type III

NOTICE

The parameters will be configured automatically after selecting the safety country/region, including overvoltage protection, undervoltage protection, overfrequency protection, underfrequency protection, voltage/frequency connection protection, cosφ curve, Q(U) curve, P(U) curve, FP curve, HVRT, LVRT, etc. Tap **Home > Settings > Advanced Settings > Safety Parameters** to check the parameters after selecting the safety country.

The power generation efficiency is different in different working modes. Set the working mode according to the local requirements and situation.

- **General Mode:** The power generated by the PV panels firstly supports the load, secondly it charges the battery, and the rest of the power is exported to the grid.
- Forced Off-Grid Mode: PV and batteries form a purely off-grid system, suitable for gridfree areas.
- **Backup mode:** Battery is only discharged for urgent use to support backup loads when grid is unavailable.
- **TOU mode:** It is recommended to use economic mode in scenarios when the peak-valley electricity price varies a lot. Select Economic mode only when it meets the local laws and regulations.
- **Peak Shaving Mode:** Peak Shaving mode is mainly applicable to industrial and commercial scenarios. When the total power consumption of the load exceeds the power consumption quota in a short period of time, battery discharge can be used to reduce the power exceeding the quota.

Settings		Safety Code Export
	← Rec Installer	Safety Code USA_208VacDefault Voltage Select safety coun- ov statry accordingly. 228.8V OV Stage1 Trip Time 13.26s
Basic Settings	Blaze enter the energy of	UV Stage1 Trip Value 183.0V
	Password:	UV Stage1 Trip Time 21.42s
♦ Port Connection >	goodwe2010 or 1111	OV Stage2 Trip Value 249.6V
Ⅰ Meter/CT-Assisted Test >	Login	OV Stage2 Trip Time 0.15s
Firmware Information		UV Stage2 Trip Value 104.0V
APP Version 5.6.0_debug		UV Stage2 Trip Time 2.04s
		OV Stage3 Trip Value 249.6V
		OV Stage3 Trip Time 0.15s
In E Letting		Exit PREV SNext



No.	Parameters	Description	
TOU mod	le		
1	Start Time	Within the Start Time and End Time, the battery is charged or	
2	End Time	discharged according to the set battery mode as well as the Rated Power.	
3	Rated Power	The percentage of the charging/discharging power to the ratedpower of the inverter.	
4	Select Mode	Set the battery mode to Charge or Discharge accordingly.	
5	Charge Cut-off SOC	The battery stop charging/discharging once the battery SOC reaches Charge Cut-off SOC.	
Delayed	charging		
6	Peak Power Sales Limit	Set the Peak Power Sales Limit in compliance with local laws and regulations. The power limit shall be lower then the output power limit specified by local requirements.	
7	PV Prioritizes Charging Battery		
8	Start Charging Time	During charging time, the PV power will first charge the battery.	
Peakshaving			
9	Start Time	The utility grid will charge the battery between Start Time and	
10	End Time	End Time if the load power consumption do not exceed the power quota. Otherwise, only PV power can be used to charge the battery.	
11	Purchase Power Limit	Set the maximum power limit allowed to purchase from the grid. When the loads consume power exceed the sum of the power generated in the PV system and Import Power Limit , the excess power will be made up by the battery.	
12	SOC	In Peak Shaving mode, the battery SOC should be lower than the set SOC . Once the battery SOC is higher than the set SOC , the peak shaving mode fails.	
4.6 Setting the SPD

After enabling **SPD**, when the SPD module is abnormal, there will be SPD module abnormal alarm prompt.

Step 1 Tap **Home** > **Settings** > **Basic Settings** > **SPD**, to set the parameters.

Step 2 Tap or **(**) to enable or disable the function based on actual needs.



4.7 Setting the Shadow Scan

Enable Shadow Scan when the PV panels are severely shadowed to optimize the power generation efficiency.

Step 1 Tap **Home > Settings > Basic Settings> Shadow Scan**, to set the parameters.

Step 2 Tap O or **O** to enable or disable the function based on actual needs. Set the **Shadow Scan interval** and **MPPT shadow scan** if the inverter supports.

Settings	< Basic Settings	< Shadow Scan
日 Communication Settings >	SPD After it is turned on, the lightning protection module will give a warning when it is abnormal, and it will not give an alarm when it is turned off.	If the shadow blocking of the PV panel is not serious, it is recommended to turn off this function Shadow Scan
🖓 Quick Settings	Generator Dry Contact After it is turned on, the battery DOD protects the inverter to stop off-grid output, and automatically closes the dry node of the generator, so that the generator cannot charge the battery.	
Basic Settings	Backup >	
Advanced Settings	Shadow Scan >	
↓ Ŷ Port Connection >		
Meter/CT-Assisted Test		
Firmware Information		
(i) APP Version V5.6.0		
Home Parameters Settings		

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4.8 Setting the Back-up Power

After enabling Backup, the battery will power the load connected to the backup port of the inverter to ensure Uninterrupted Power Supply when the power grid fails.

Step 1 Tap Home > Settings > Basic Settings > Backup, to set the parameters.

Step 2 Set the backup supply function based on actual needs.



4.9 Setting Auto-Test

Enable AUTO TEST to set auto test for grid tying in compliance with local grid standards and requirements.

Step 1 Tap **Home > Settings > Basic Settings > Auto Test** to set the parameters.

Step 2 Set Auto-Test based on actual needs.

Settings	< Basic Settings	< Auto-Test
品 Communication Settings	SPD After it is turned on, the lightning protection module will give a warning when it is abnormal, and it will not give an alarm when it is turned off.	Inverter SN :
\mathcal{V} Quick Settings	Backup > Auto-Test >	Test Item: Trip Limit Set : Trip Limit Set :
Basic Settings	▶	Test Result: Vac(V)
Advanced Settings >		Vac Off(V): T Off(S) :
♦ ♥ Port Connection >		Test Item:
Meter/CT-Assisted Test		Trip Limit Set : Test Result:
Firmware Information		Fac(Hz) Fac Off(Hz):
(i) APP Version V5.6.0		T. Off(S) :
Home Parameters		⊙ ⊙ START STOP CLEAR

4.10 Setting the Connected Phase

The standards of some countries/regions require that the phase sequence of inverters should be set when three single phase inverters form a three phase equipment.

Step 1 Tap **Home > Settings > Basic Settings > Connected Phase Settings** to set the parameters.

Step 2 Set the phase sequence of the inverter based on actual connections. Tap **Save** to complete the settings.

Settings	< Basic Settings	< Connected Phase Settings Save
器 Communication Settings >	SPD After it is turned on, the lightning protection	Inverter SN: Phase:
Quick Settings >	module will give a warning when it is abnormal, and it will not give an alarm when it is turned off. Battery Wake-up	s o
Basic Settings	After it is turned on, when the battery is shut down due to undervoltage protection, it can wake up the battery. Tips :1. Only applicable to lithium batteries without	T
	circuit breakers; 2. After this function is enabled, the battery port outputs about 60V voltage.	R-phase 3.The device connected to the S/T-phase is the Slave
€ Meter/CT-Assisted Test >	Shadow Scan	
Firmware Information	Connected Phase Settings	-
(i) APP Version V5.6.0	Inverters forms Three-phase	
Home Parameters Settings		

4.11 Setting DRED/Remote Shutdown/RCR/EnWG 14a

NOTICE

Password for Advanced Settings: goodwe2010 or 1111.

Enable **DRED/Remote Shutdown/RCR** before connecting the third party DRED, remote shutdown, or RCR device to comply with local laws and regulations.

Step 1 Tap **Home > Settings > Advanced Settings > DRED/Remote Shutdown/RCR** to set the parameters.

Step 2 Tap Or to enable or disable the function based on actual needs.

Step 3 For areas where the EnWG 14a regulation applies, when enabling the RCR function, you need to select the RCR mode according to the actual device type and set the DI port power.

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If only need to use DI4-EnWG 14a, other DI ports

no need to wire

4.12 Setting Three-phase Unbalanced Output

Enable the Three-phase unbalanced output when connecting unbalanced loads, which means L1, L2, L3 of the inverter respectively connected to loads with different power. Only for three phase inverters.

Step 1 Tap **Home > Settings > Advanced Settings > Three-phase Unbalanced Output** to set the parameters.

Step 2 Tap Or Oto enable or disable the function based on actual needs.



4.13 Setting the Backup N and PE Relay Switch

To comply with local laws and regulations, ensure that the relay inside the back-up port remains closed and the N and PE wires are connected when the inverter is working off-grid.

Step 1 Tap **Home > Settings > Advanced Settings > Backup N and PE Relay Switch** to set the parameters.

Step 2 Tap Or Oto enable or disable the function based on actual needs.



4.14 Setting Power Limit Parameters

- 4.14.1 Power Limit Setting (For countries/regions except Australia)
- Step 1 Tap Home > Settings > Advanced Settings > Power Limit to set the parameters.
- **Step 2** Tap Or **O** to enable or disable the function based on actual needs.

Step 3 Enter the parameters and tap $\sqrt{}$. The parameters are set successfully.

Settings	< Advanced Settings	< Power Limit		
	DRED/Remote Shutdown/RCR	Power Limit		
品 Communication Settings >	ON:The DRED/Remote Shutdown/RCR function enabled Please check if turned on this function and cable connection	Export Power (W) 100 100 🗸		
	For the detail please refer to the manual and local regulations.	External CT Ratio 0 0		
C Quick Settings	Three-phase Unbalanced Output	Range[0,3000] 1. If the current of the primary side and secondary side of the selected CT is 3000A:5A, please enter the CT		
Basic Settings >	 ON:The output power of each phase of the inverter will be output according to the load power of each phase, and the goal is to realize zero power trading of each phase. 	ational selected of its 3000x30A please enter the CT rational use of 600, and so on. 2. The secondary current of the external CT should be ≤5A.		
Advanced Settings	 Configuring this function requires restarting the device. It is recommended to configure this after other configurations are completed. 	Only the CT ratio of the electric meter GM330/ GM3000C can be set. For other models (such as GM3000), it is forbidden to set the CT ratio, otherwise		
¢ Port Connection >	Backup N And PE Relay Switch ON: During off-grid operation, Backup N and PE are connected inside the inverter.	the electric meter cannot work normally.		
Meter/CT-Assisted Test	OFF: During off-grid operation, Backup N and PE are disconnected inside the inverter. Set this parameter according to local power grid installation regulations.			
Firmware Information	Power Limit			
(i) APP Version V5.6.0	AFCI Test >			
	Battery Function >			
Home Parameters	Safety Parameter Settings			

No.	Parameters	Description
1	Power Limit	Enable Power 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.

4.14.2 Power Limit Setting (Only for Australia)

- **Step 1** Tap **Home > Settings > Advanced Settings > Power Limit** to set the parameters.
- **Step 2** Tap Orroto enable or disable the function based on actual needs.
- **Step 3** Enter the parameters and tap $\sqrt{}$. The parameters are set successfully.

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<	< Power Limit				
Soft Limit					
Power Lim	it	0	0	 ✓ 	
Hard Limit					
If Soft limit a time, Gener	and Hard limit ation limit func	are enabled tion is ena	at the bled.	same	
External C Range[0,30 1. If the cur side of the the CT ratio 2. The seco	T Ratio 000] rent of the prir selected CT is o value of 600, ondary current	0 mary side at 3000A:5A, and so on. of the exter	0 nd seco please rnal CT	ondary e enter	
be ≤5A.					
Only the CT GM3000C c GM3000), it	ratio of the ele can be set. For o t is forbidden to meter cannot w	ctric meter (other models o set the CT i vork normally	GM330, s (such ratio, ot /.	as herwise	

No.	Parameters	Description	
1	Soft Limit	Enable Soft Limit when power limiting is required by local grid standards and requirements.	
2 Power Limit		Set the value based on the actual maximum power feed into the utility grid.	
3	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.	
4	External CT Ratio	Set the ratio of the primary current to the secondary current of the external CT.	

4.15 Set the AFCI Detection

Step 1 Tap **Home** > **Settings** > **Advanced Settings** > **AFCI Test** to set the parameters.

Step 2 Enable AFCI Test, Clear AFCI Alarm and Self-Check based on actual needs.



No.	Parameters	Description	
1	AFCI Test	Enable or disable AFCI accordingly.	
2	AFCI Test Status	The detection status like Not Self-checking.	
3	Clear AFCI Alarm	Clear alarm records.	
4	Self-check	Tap to check whether the AFCI function works normally.	

4.16 Setting the Battery

Step 1 Tap **Home > Settings > Advanced Settings > Battery Function Setting** to set the parameters.

Step 2 Enter the parameters and tap ' $\sqrt[4]$. The parameters are set successfully.

Lithium battery

Settings	Advanced Settings Sattery Function
器 Communication Settings >	DRED/Remote Shutdown/RCR ON:The DRED/Remote Shutdown/RCR function enabled Please check if furned on this function and cable connection. For the detail please refer to the manual and local regulations.
↓ Quick Settings >	Three-phase Unbalanced Output
Basic Settings	 ON-The output power of each phase of the inverter will be output according to the load power of each phase, and the goal is to realize zero power trading of each phase. Configuring this function requires restarting the device. It is recommended to configure this after other configurations are completed.
Advanced Settings	Perline N And DE Palay Switch
♦ Port Connection >	Deckup N And PE Relay Switch ON: During off-grid operation, Backup N and PE are connected inside the inverter. Off: During off-grid operation, Backup N and PE are connected inside the inverter.
Meter/CT-Assisted Test	disconnected inside the invertex. Set this parameter according to local power grid installation regulations.
Firmware Information	Power Limit >
(i) APP Version V5.6.0	AFCI Test >
	Battery Function
Home Parameters	Safety Parameter Settings
	Limit Protection Immediate Charging
	SOC Protection Immediate Charging Charge Complete
	ONTURe on the protection function when the battery capacity is lower than the set threshold SOC For Stopping Charging 0 0
	Depth Of Discharge (On-Grid) 0 Immediate Charging Power 0 0
	Range[0, 90]% Set the discharge depth for the battery grid-connected application, unit: %
	Depth Of Discharge (Off-grid) 0 Start Stop Range(0, 90)% Clicking the "Start" button will immediately execute a charging task. Set the battery discharge depth for off-grid applications, unit: % Clicking the "Start" button will immediately stop the current charging task. When the battery SOC reaches the set "SOC For Stopping
	Backup SOC Holding Image: Constraint of the state of Charge (SOC) ON: When the power grid is functioning normally, the battery discharges to the State of Charge (SOC) Image: Charging Charge (SOC) protection level, maintaining the battery capacity the battery at the beginning of charging. without further decline for use as a backup power unavailable, the grid can be utilized to charge the battery and sustain the reserved SOC. Constraint of the battery at the beginning of charging.

No.	Parameters	Description			
Limit F	Limit Protection				
1	SOC Protection	Start battery protection when the battery capacity is lower than the Depth of Discharge.			
2	Depth Of Discharge (On- Grid)	Indicates the depth of discharge of the battery when the inverter			
3	Depth Of Discharge (Off- grid)	is on-grid or off-grid.			
4	Backup SOC Holding	The battery will be charged to preset SOC protection value by utility grid or PV when the system is running on-grid. So that the battery SOC is sufficient to maintain normal working when the system is off-grid.			
Imme	diate Charging				
5	Immediate Charging	Enable to charge the battery by the grid immediately. This takes effect once. Enable or Disable based on actual needs.			
6	SOC For Stopping Charging	Stop charging the battery once the battery SOC reaches SOC For Stopping Charging.			
7	Immediate Charging Power	Indicates the percentage of the charging power to the inverter rated power when enabling Immediate Charging . For example, setting the Immediate Charging Power of a 10kW inverter to 60 means the charging power of the inverter is 10kW*60%=6kW.			
8	Start	Tap to start charging immediately.			
9	Stop	Tap to stop charging immediately.			
10	Battery Heating	 Optional. This option is displayed on the interface when a battery that supports heating is connected. After the battery heating function is turned on, when the temperature is below the value that starts up thebattery, PV power or electricity from the grid will beused to heat the battery. Heating Mode: TOU mode: to maintain the minimum power input capacity of the battery. It will be turned on when the temperature is less than 5°C, and turned off when it is greater than or equal to 7°C. Standard Mode: to maintain the moderate power input capacity of the battery. It will be turned on when the temperature is less than 10°C, and turned off when it is greater than or equal to 12°C. Efficient Mode: to maintain the higher power input capacity of the battery. It will be turned on when the temperature is less than 20°C, and turned off when it is greater than or equal to 22°C. 			

No.	Parameters	Description	
11	Battery Wake-up	After turned on, the battery can be awakened when it shuts down due to undervoltage protection. Only applicable to lithium batteries without circuit breakers. After turned on, the output voltage of the battery port is about 60V.	

Lead Acid Battery

	Settings		< Advanced Settings	<	Battery Function
Ē	Communication Cottings		DRED/Remote Shutdown/RCR	Pa	rameter Settings
æ	communication settings		Please check if turned on this function and cable connection. For the detail please refer to the manual and local regulations.	so	DC Protection >
₽	Quick Settings	>	Three-phase Unbalanced Output	Im	mediate Charging
0	Basic Settings	>	 ON-The output power of each phase of the inverter will be output according to the load power of each phase, and the goal is to realize zero power trading of each phase. Configuring this function requires restarting the device. It is recommended to confluent this after other 		
<u></u>	Advanced Settings)-	configurations are completed.		
¢٩	Port Connection	>	Backup N And PE Relay Switch ON: During off-grid operation, Backup N and PE are connected inside the inverter.		
民	Meter/CT-Assisted Test	>	OFF: During off-grid operation, Backup N and PE are disconnected inside the inverter. Set this parameter according to local power grid installation regulations.		
٢	Firmware Information	>	Power Limit >		
i	APP Version	V5.6.0	AFCI Test >		
			Battery Function >)	
F	iome Parameters	tings	Safety Parameter Settings >		

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<	Parameter Settings	3	Save
Battery Param	eters		
Rated Capac Range[25,2000	ity]AH	200	200
Internal Resi Range[0,255]m Multiple batteri	stance Ω es in series: Please inpu	50 t the tot	50 al
for overvoltage	protection.	battery	system
Temperature Range[-200,200 The influence of of charging volt temperature co of charging volt	Compensation D]-ImV/°C f temperature on the thi tage judgment is influen impensation, and the act tage will be affected.	3 reshold ced by tual upp	3 er limit
Discharge Par	ameters		
Lower Limit Voltage Range[0,576]V	Of Discharge	42.0	42.0
Maximum Di Range[0,200]A	scharging Current	30.0	30.0
Charging para	meters		
Maximum Cl Range[0,120]A	narging Current	30.0	30.0
Constant Ch Range[0,6553.9 The upper limit charging mode	arging Voltage 5]V of charging voltage in c	58.4	58.4
Float Voltage Range[0,6553.5 The upper volta	e 5]V age limit of change into 1	54.4 float cha	54.4
Maximum Cu To Float Cha Range[0,25.5]A The maximum of charging	urrent For Switching rge charging current of char	3.0 nge into	3.0 float
The Time Of Range[0,65535 The time of uni change into flo	Float Charging)S form charging/constant at charging	180 charging	180
Battery Charg	e		
Equalization Range[0,365]D Number of days	Cycle AY s interval starting uniform	90 m chargi	90





No.	Parameters	Description	
Parameter Settings			
1	Rated Capacity	Set the battery capacity based on actual connected battery.	
2	Internal Resis- tance	Set the battery internal resistance based on actual connected battery.	
3	Temperature Compensation	 The battery charging voltage will be influenced by the battery temperature. Based on 25°C, each time the battery temperature changes 1°C, the upper limit of the charging voltage will be adjusted according to the Temperature Compensation. For example, if the Temperature Compensation is 10, when the battery temperature rises to 26°C, the upper limit of the charging voltage will decrease by 10mV. 	
4	Lower Limit of Discharge Voltage	Set the minimum voltage during battery discharging based on actual needs.	
5	Maximum Dis- charging Current	Set the maximum discharging current based on actual needs.	
6	Maximum Charging Current	Set the maximum charging current based on actual needs.	
7	Constant Charging Voltage	Set the charging voltage during constant charging based on actual needs	
8	Float Voltage	Set the charging voltage during floating charging based on actual needs.	
9	Maximum Cur- rent For Switch- ing To Fload Charge	Set the maximum charging current when the charging mode switch from equalization/constant charging to float charging.	
10	The Time of Float Charging	Set the switching time when the charging mode switch from qual- ization/constant charging to float charging.	
11	Equalization Cycle	Set the charging intervals for equalization charge.	
SOC Protection			
12	SOC Protection	Start battery protection when the battery capacity is lower than the Depth of Discharge .	
13	Depth Of Discharge (On- Grid)	Indicates the depth of discharge of the battery when the inverter	
14	Depth Of Discharge (Off- grid)	is on-grid or off-grid.	

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No.	Parameters	Description
15	Backup SOC Holding	The battery will be charged to preset SOC protection value by utility grid or PV when the system is running on-grid. So that the battery SOC is sufficient to maintain normal working when the system is off-grid.
Immed	diate Charging	
16	SOC For Stopping Charging	Stop charging the battery once the battery SOC reaches SOC For Stopping Charging .
17	Immediate Charging Power	Indicates the percentage of the charging power to the inverter rated power when enabling Immediate Charging . For example, setting the Immediate Charging Power of a 10kW inverter to 60 means the charging power of the inverter is 10kW*60%=6kW.
18	Start	Tap to start charging immediately.
19	Stop	Tap to stop charging immediately.

4.17 Setting PV Connect Mode

Select the PV access mode based on the actual connections between the PV strings and MPPT ports of the inverter.

Step 1 Tap Home > Settings > Advanced Settings > PV Connect Mode to set the parameters.

Step 2 Set the access mode to **Independent Access**, **Partial Parallel Connect** or **Parallel Connection** based on actual connections. Tap **Save** to complete the settings.

Settings	< Advanced Settings	< PV Connect Mode
民 Communication Settings >	DRED/Remote Shutdown/RCR	Stand-alone Connect 🔗
₽ Quick Settings >	Three-phase Unbalanced Output	Partial Parallel Connect
Basic Settings	 be output according to the load power of each phase, and the goal is to realize zero power trading of each phase. 2. Configuring this function requires restarting the device. It is recommended to configure this after other 	
Advanced Settings	configurations are completed.	Parallel Connect
♦ ♦ Port Connection >	Backup N And PE Relay Switch ON: During off-grid operation, Backup N and PE are connected inside the inverter. Description of the inverter. Description of the inverter.	
A Meter/CT-Assisted Test	OFF: During on-grid operation, backup is and PE are disconnected inside the inverter. Set this parameter according to local power grid installation regulations.	
Firmware Information	Power Limit >	
(i) APP Version V5.6.0	AFCI Test >	
	Battery Function >	
Home Parameters	Safety Parameter Settings >	•
	PV Connect Mode	
	Linhalanced Voltage Output	

No.	Parameters	Description
1	Stand-alone Connect	The PV strings are connected to the MPPT terminals one by one.
2	Partial Parallel Connect	The PV strings are connected to the inverter in both stand- alone and parallel connection. For example, one PV string connect to MPPT1 ad MPPT2, another PV string connect to MPPT3.
3	Parallel Connect	The external PV string is connected to multi MPPT terminals of the inverter.

4.18 Setting the Unbalance Voltage Function

Step 1 Tap **Home > Settings > Advanced Settings > Unbalance Voltage Function** to se the parameters.

Step 2 Tap or to enable or disable the function based on actual needs.

Step 3 After enabling the Unbalance Voltage Function, set parameters based on actual needs. And tap ' γ '.The parameters are set successfully.

Settings	< Advanced Settings	< Unbalanced Voltage Output
器 Communication Settings >	DRED/Remote Shutdown/RCR ON:The DRED/Remote Shutdown/RCR function enabled Please check if turned on this function and cable connection. For the detail please refer to the manual and local	Unbalanced Voltage Output 1. This function is used to prevent the inverter from not working properly due to a rise in grid-side voltage due to large output power. 2. After turning on this function, the inverter will
\bigvee^{n} Quick Settings >	regulations. Three-phase Unbalanced Output	perform some power load reduction and power distribution according to the voltage value of each phase grid to ensure maximum utilization of power and prevent voltage rise as much as possible.
(a) Basic Settings >	 ON:The output power of each phase of the inverter will be output according to the load power of each phase, and the goal is to realize zero power trading of each phase. Configuring this function requires restarting the device. It is recommended to configure this after other 	Voltage Threshold 0.0 0.0 Range[230,300]V If the default state cannot meet the requirements, you
Advanced Settings	configurations are completed.	can consider modifying the value appropriately. By lowering this value, the inverter will perform load shedding and power distribution earlier when the grid
¢ ♀ Port Connection >	Backup N And PE Relay Switch ON: During off-grid operation, Backup N and PE are connected inside the inverter.	uniteen glund with a warshold nonner who give voltage rises, which may result in power loss being more likely to occur. By increasing this value, the inverter will perform load shedding and power distribution later when the grid which and public build in the second state of the second
Meter/CT-Assisted Test	OFF: During off-grid operation, Backup N and PE are disconnected inside the inverter. Set this parameter according to local power grid installation regulations.	fault state due to triggering overvoltage.
Firmware Information	Power Limit >	
(i) APP Version V5.6.0	AFCI Test >	
	Battery Function >	
Home Parameters	Safety Parameter Settings >	
	PV Connect Mode >	
	Unbalanced Voltage Output	

4.19 Setting Safety Parameters

NOTICE

Set the custom safety parameters in compliance with local requirements. Do not change the parameters without the prior consent of the grid company.



4.19.1 Setting the Active Power Mode

Step 1 Tap **Home > Settings > Advanced Settings > Safety Parameters > Active Power Mode** to set the parameters.

Step 2 Set the parameters based on actual needs.

P(F) Curve





P(U) Curve



No.	Parameters	Description
1	Output Active Power	Set the output power limit of the inverter.
2	Power Gradient	Set the gradient when the active output power increases or decreases.
Overfr	requency Unloading	9
1	P(F) Curve (Frequency Power Curve)	Enable P(F) Curve when it is required by local grid standards and requirements.
2	Overfrequency Unloading Mode	 Set this mode based on actual needs. Slope mode: Adjust the power based on overfrequency point and deloading slope. Stop mode: adjust the power based on overfrequency threshold and endpoint.
3	Overfrequency Threshold	The inverter output active power will decrease when the utility grid frequency is too high. The inverter output power will decrease when the utility grid frequency is too high. The inverter output power will decrease when the utility grid frequency is higher than Overfrequency Threshold.
4	Power Trading Conversion Frequency	When the set frequency value is reached, the system switches from selling power to purchasing power. Supported: Pn rated power, Ps apparent power, Pm current power, Pmax maximum power.
5	Overfrequency Endpoint	The inverter output active power will decrease when the utility grid frequency is too high. The inverter output power will stop decreasing when the utility grid frequency is higher than Overfrequency Endpoint.
6	Power Reference	Adjust the inverter output power based on Apparent Active Power, Rated Active Power, Momentary Active Power, Or Max. Active Power.
7	Overfrequency Power Slope	When the grid frequency exceeds the over-frequency point, the inverter output power will decrease according to the slope.

No.	Parameters	Description	
8	Tentional Delay Ta	Indicates the delayed response time when the inverter output power is higher than the Overfrequency Threshold.	
9	Hysteresis Function Enable	Enable the hysteresis function.	
10	Frequency Hysteresis Point	During the over-frequency derating process, if the frequency decreases, the power will output at the lowest derating point until the frequency drops below the hysteresis point, at which point the power will recover.	
11	Hysteresis Observation Time	Namely, for over-frequency derating and frequency decrease and when the frequency is below the hysteresis point, the time to wait before power recovery starts.	
12	Hysteresis Power Recovery Slope Reference Power	For over-frequency derating and frequency decrease, when the frequency drops below the hysteresis point, the recovery reference is calculated as recovery slope * reference power for power recovery. Supported: Pn rated power, Ps apparent power, Pm current power, Pmax maximum power, Power difference (\triangle P).	
13	Hysteresis Power Recovery Slope	For under-frequency loading and frequency increase, when the frequency exceeds the hysteresis point, the slope at which the power is recovered.	
Unde	Underfrequency Unloading		
1	P(F) Curve	Enable P(F) Curve when it is required by local grid standards and requirements.	
2	Underfrequency Loading Mode	 Set this mode based on actual needs. Slope mode: adjust power based on underfrequency and loading slope. Stop mode: adjust power based on underfrequency threshold and underfrequency endpoint. 	
3	Overfrequency Threshold	The inverter output active power will increase when the utility grid frequency is too low. The inverter output power will increase when the utility grid frequency is lower than the value.	
4	Power Trading Conversion Frequency	When the set frequency value is reached, the system switches from selling power to purchasing power. Supported: Pn rated power, Ps apparent power, Pm current power, Pmax maximum power, power difference (\triangle P).	
5	Underfrequency Endpoint	The inverter output active power will increase when the utility grid frequency is too low. The inverter output power will stop decreasing when the utility grid frequency is higher than Overfrequency Endpoint.	
6	Power Reference	Adjust the inverter output power based on Apparent Active Power, Rated Active Power, Momentary Active Power, Or Max. Active Power.	

No.	Parameters	Description
7	Underfrequency Power Slope	The inverter output active power will increase when the utility grid frequency is too low. The slope at which the inverter output power increases
8	Tentional Delay Ta	Indicates the delayed response time when the inverter output power is higher than the Overfrequency Threshold.
9	Hysteresis Function Enable	Enable the hysteresis function.
10	Frequency Hysteresis Point	During the under-frequency derating process, if the frequency increases, the power will output at the lowest derating point until the frequency is higher than the hysteresis point, at which point the power will recover.
11	Hysteresis Observation Time	Namely, for under-frequency derating and frequency increase and when the frequency is higher than the hysteresis point, the time to wait before power recovery starts.
12	Hysteresis Power Recovery Slope Reference Power	For under-frequency derating and frequency decrease, when the frequency is higher than the hysteresis point, the recovery reference is calculated as recovery slope * reference power for power recovery. Supported: Pn rated power, Ps apparent power, Pm current power, Pmax the maximum power, Power difference (\triangle P).
13	Hysteresis Power Recovery Slope	For under-frequency loading and frequency increase, when the frequency exceeds the hysteresis point, the slope at which the power is recovered.
14	Enable P(U) Curve	Enable P(U) Curve when it is required by local grid standards and requirements.
15	Vn Voltage	The percentage of actual voltage to the rated voltage at Vn point, n=1, 2, 3, 4. For example, setting Vn Voltage to 90 means V/Vrated%=90%.
16	Vn Active Power	The percentage of the output active power to the apparent power at Vn point, (n=1, 2, 3, 4). For example, setting Vn Active Power to 48.5 means P/Prated% =48.5%
17	Output Response Mode	 Set the active power output response mode. Supported: PT-1 Behavior, realize active scheduling based on the first-order LPF curve within the response time constant. Gradient Control, realize active scheduling based on the power change slope
18	Power Change Gradient	The active scheduling will be implemented based on the power gradient when the output response mode is set to slope scheduling.

No.	Parameters	Description
19	PT-1 Behavior Tau	Set the time constant within which the active power changes based on the first order LPF curve when the Output Response Mode is set to be PT-1 Behavior.

4.19.2 Setting the Reactive Power Mode

Step 1 Tap **Home > Settings > Advanced Settings > Safety Parameters > Reactive Power Mode Settings** to set the parameters.

Step 2 Set the parameter based on actual needs. **Q(U) Curve**



No.	Parameters	Description
Fix PF		
1	Fix PF	Enable Fix PF when it is required by local grid standards and requirements.
2	Under-excited / Over-excited	Set the power factor as lagging or leading based on actual needs and local grid standards and requirements.
3	Power Factor	Set the power factor based on actual needs. Range: -1~-0.8, or +0.8~+1.
Fix Q		
1	Fix Q	Enable Fix Q when it is required by local grid standards and requirements.
2	Under-excited / Over-excited	Set the reactive power as inductive or capacitive reactive power based on actual needs and local grid standards and requirements.
3	Reactive Power	The percentage of reactive power to the apparent power.
Q(U) C	urve	
1	Q(U) Curve	Enable Q(U) Curve when it is required by local grid standards and requirements.
2	Mode Option	Set Q (U) Curve mode. Supported: basic mode, slope mode.
3	Vn Voltage	The percentage of actual voltage to the rated voltage at Vn point, n=1, 2, 3, 4. For example, setting Vn Voltage to 90 means V/Vrated%=90%.
4	Vn Reactive Power	The percentage of the output reactive power to the apparent power at Vn point, (n=1, 2, 3, 4). For example, setting Vn Reactive Power to 48.5 means Q/Srat- ed%=48.5%
5	Voltage Dead Zone Width	When the Q(U) curve mode is set to slope mode, set the voltage dead zone. Within this dead zone, there is no requirement for reactive power output.
6	Over-excitation Slope	In Q(U) curve mode set to slope mode, the power change slope is
7	Under-excitation Slope	set to a positive or negative value.
8	Vn Reactive Power	The percentage of the output reactive power to the apparent power at Vn point, (n=1, 2, 3, 4). For example, setting Vn Reactive Power to 48.5 means Q/Srat- ed%=48.5%
9	Q(U) Curve Time Constant	The power is required to reach 95% in the first order LPF curve within three time constant.

No.	Parameters	Description
10	Enable extension function	After enabling, set corresponding parameters.
11	Lock-In Power	When the inverter output reactive power to the rated power ratio
12	Lock-out Power	is between the Lock-in power and Lock-out power, the ratio meets Q(U) curve requirements.
Cos φ	(P) Curve	
1	Cos φ (P) Curve	Enable $Cos\phi$ Curve when it is required by local grid standards and requirements.
2	Mode Option	Set cosφ(P) Curve mode. Supported: basic mode, slope mode.
3	Pn Power	The percentage of the output active power to the rated power at Pn point. N=A, B, C, D, E.
4	Pn Cos φ	Pn Power Factor N=A, B, C, D, E.
5	Over-excitation Slope	In cosφ(P) curve mode set to slope mode, the power change slope
6	Under-excitation Slope	is set to a positive or negative value.
7	Pn Power	The percentage of the output active power to the rated power at Pn point. N=A, B, C.
8	Pn Cos φ	Pn Power Factor N=A, B, C.
9	Cos φ(P)Curve Time Constant	The power is required to reach 95% in the first order LPF curve within three time constant.
10	Enable Extension Function	After enabling, set corresponding parameters.
11	Lock-in Voltage	When the grid voltage is between Lock-in Voltage and Lock-out
12	Lock-out Voltage	Voltage, the voltage meets Cos ϕ curve requirements.
Q(P) C	urve	
1	Q(P) Curve	Enable Q(P) Curve when it is required by local grid standards and requirements.
2	Mode Option	Set Q (P) Curve mode. Supported: basic mode, slope mode.
3	Pn Power	The percentage of the output reactive power to the apparent power at Pn point, n= 1, 2, 3, 4, 5, 6. For example, setting Pn Power to 90 means Q / Prated%=90%.
4	Pn Reactive Power	The percentage of the output active power to the rated power at Pn point, n=1, 2, 3, 4, 5, 6. For example, setting Pn Reactive Power to 90 means P / Prat- ed%=90%.

No.	Parameters	Description		
5	Over-excitation Slope	In Q(P) curve mode set to slope mode, the power change slope is		
6	Under-excitation Slope	set to a positive or negative value.		
7	Pn Power	The percentage of the output reactive power to the apparent power at Pn point, n= 1, 2, 3. For example, setting Pn Power to 90 means Q / Prated%=90%.		
8	Pn Reactive Power	The percentage of the output reactive power to the apparent power at Pn point, (n= 1, 2, 3). For example, setting Pn Reactive Power to 90 means P / Prat- ed%=90%.		
9	Time Constant	The power is required to reach 95% in the first order LPF curve within three time constant.		

4.19.3 Setting Protection Parameters

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Protection Parameters to set the parameters.

Step 2 Set the parameters based on actual needs.

No.	Parameters	Description	
1	OV Stage n Trip Value	Set the overvoltage n-order protection trigger threshold, n=1, 2, 3, 4.	
2	OV Stage n Trip Time	Set the overvoltage trigger n-order trip time, n=1, 2, 3, 4.	
3	UV Stage n Trip Value	Set the undervoltage n-order protection threshold, n=1, 2, 3, 4.	
4	UV Stage n Trip Time	Set undervoltage trigger n-order trip time, n=1, 2, 3, 4.	
5	10min Overvoltage Trip Value	Set 10min overvoltage trip value.	
6	10Min Overvoltage Trip Time	Set the 10min overvoltage protection trip time.	
7	OF Stage n Trip Value	Set the grid overfrequency n-order protection threshold value, n=1, 2, 3, 4.	
8	OF Stage n Trip Time	Set the grid overfrequency protection n-order tripping time, n=1, 2, 3, 4.	
9	UF Stage n Trip Value	Set the grid underfrequency n-order protection threshold value, n=1, 2, 3, 4.	
10	UF Stage n Trip Time	Set the grid underfrequency protection n-order tripping time., n=1, 2, 3, 4.	

4.19.4 Setting Connection Parameters

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Protection Parameters to set the parameters.

Step 2 Set the parameters based on actual needs.



No.	Parameters	Description	
Ramp	Up		
1	Upper Voltage	The inverter cannot connect to the grid if it is powered on for the first connection and the grid voltage is higher than the Upper Voltage.	
2	Lower Voltage	The inverter cannot connect to the grid if it is powered on for the first connection and the grid voltage is lower than the Lower Voltage.	
3	Frequency Upper Limit	The inverter cannot be connected to the grid if it is powered on for the first connection and the grid frequency is higher than the Uppe Frequency.	
4	Frequency Lower Limit	The inverter cannot be connected to the grid if it is powered on for the first connection and the grid frequency is lower than the Lower Frequency.	
5	Observation Time	The waiting time for connecting the inverter to the grid when meeting the following requirements: 1. The inverter is powered on for the first connection. 2. The utility grid voltage and frequency meet certain requirements.	
6	Soft Ramp Up Gradient	Start Soft Ramp Up Gradient enabling.	

No.	Parameters	Description		
7	Soft Ramp Up Gradient	Indicates the percentage of incremental output power per minute based on the local requirements when the inverter is powered on for the first time. For example, setting Soft Ramp Up Gradient to 10 means the start-up slope is 10% Prated/min.		
Reconi	nection			
1	Upper Voltage	The inverter cannot connect to the grid if it is reconnecting due to a fault and the grid voltage is higher than the Upper Voltage .		
2	Lower Voltage	The inverter cannot connect to the grid if it is reconnecting due to a fault and the grid voltage is lower than the Lower Voltage .		
3	Upper Frequency	The inverter cannot connect to the grid if it is reconnecting due to fault and the grid frequency is higher than the Upper Frequency .		
4	Lower Frequency	The inverter cannot connect to the grid if it is reconnecting due to a fault and the grid frequency is lower than the Lower Frequency .		
5	ObservationThe waiting time for connecting the inverter to the grid meeting the following requirements.Time1. The inverter is reconnecting to the grid due to a faul 2. The utility grid voltage and frequency meet certain re			
6	Reconnection Gradient	Enable the start up power slope.		
7	Reconnection Gradient	Indicates the percentage of incremental output power per minute based on the local requirements when the inverter is not connected to the grid for the first time. For example, setting Reconnection Gradient to 10 means the reconnect slope is 10%P/S _{rated} /min.		

4.19.5 Setting Voltage Ride Through Parameters

Step 1 Tap **Home > Settings > Advanced Settings > Safety Parameters > Voltage Ride Through** to set the parameters.

No.	Parameters	Description		
LVRT				
1	LVRT	Enable LVRT Enabling.		
2	UVn Voltage	The ratio of the ride through voltage to the rated voltage at UVn point during LVRT. n=1,2,3,4,5,6,7.		
3	UVn Time	The ride through time at UVn point during LVRT. n=1,2,3,4,5,6,7		

Step 2 Set the parameters based on actual needs.

No.	Parameters	Description
4	Enter Into LVRT Thresh- old	The inverter will not be disconnected from the utility grid immediate- ly when the grid voltage is between Enter Low Crossing Threshold
5	Exit LVRT Endpoint	and Exit Low Crossing Threshold.
6	K1Slope	K-factor for reactive power during LVRT.
7	Zero Current Mode	The system outputs zero current during LVRT.
8	Entry Thresh- old	Set the entry threshold of zero current mode
HVRT		
1	HVRT	Enable LVRT Enabling.
2	OVn Voltage	The ratio of the ride through voltage to the rated voltage at OVn point during HVRT. n=1,2,3,4,5,6,7.
3	OVn Time	The ride through time at UVn point during HVRT. n=1,2,3,4,5,6,7
4	Enter High Crossing Threshold	The inverter will not be disconnected from the utility grid immediate-
5	Exit High Crossing Threshold	and Exit High Crossing Threshold.
6	K2 Slope	K-factor for reactive power during HVRT.
7	Zero Current Mode	The system outputs zero current during HVRT.
8	Entry Thresh- old	Set the entry threshold of zero current mode
9	Current Distribution Mode	Set the current distribution mode. Supported: Constant Current Mode, Reactive Power Priority Mode, and Active Power Priority Mode.
10	Active Power Recovery Mode After Crossing	Set the active power recover mode after LVRT or HVRT. Supported: Disable, Gradient Control, or PT-1 Behavior.
11	Power Gra- dient	Realize active power recovery based on the power change slope.
12	PT-1 Behavior Tau	Set the time constant within which the active power changes based on the first order LPF curve.

No.	Parameters	Description		
13	Traversing The End Of Reactive Pow- er Recovery Mode	V- Set the active power recover mode after LVRT or HVRT. Supported: Disable, Gradient Control, or PT-1 Behavior.		
14	Power Change Gra- dient	Realize reactive power recovery based on the power change slope		
15	PT-1 Behavior Tau	Set the time constant within which the reactive power changes based on the first order LPF curve.		

4.19.6 Setting Frequency Ride Through Parameters

Step 1 Tap **Home > Settings > Advanced Settings > Safety Parameters > Frequency Ride Through** to set the parameters.

Step 2 Set the parameters susce on actual needs	Step	2	Set th	ne	parameters	based	on	actual	needs.
--	------	---	--------	----	------------	-------	----	--------	--------

No.	Parameters	Description		
1	Frequency Ride Through	Enable Frequency Ride Through function.		
2	UFn Frequen- cy The frequency at the UFn point during frequency ride through. n=1,2,3			
3	UFn Time	The ride through duration at the UFn point during frequency ride through. n=1,2,3		
4	OFn Frequency	The frequency at the OFn point during frequency ride through. n=1,2,3		
5	OFn Time	The ride through duration at the OFn point during frequency ride through. n=1,2,3		

4.20 Exporting Safety Parameters

After selecting the safety code, some models support exporting safety parameter files.

Step 1 Tap **Home > Settings > Advanced Settings > Export** to export the parameters.

Step 2 Select **Safety Parameters**, and tap **Export** to start downloading the current safety parameter file. When the export is complete, tap **Share** and choose how you want to open the exported file.

Settings	< Advanced Settings		C Parameter Export	
品 Communication Settings >	Remote Shutdown		Parameter Export Export Records	
	DRED		Safety Parameters	
C Quick Setungs	RCR			
Basic Settings >	PID Repair			
Advanced Settings	Power Limit	>		
♦ Port Connection >	N-PE Voltage Detection	>		
Meter/CT-Assisted Test	DC AFCI Detection	>		
Firmware Information	Power Scheduling Response Parameters	>		
(i) APP Version V5.6.0	Safety Parameters	>		
	Export			
Home Parameters			Export	

4.21 Setting Generator/Load Control

Loads and generators can be controlled by SolarGo app when the inverter supports load control function.

	NOTICE
Some inverters support load control only.	
Some inverters support load control only.	

Type I

Step 1 Tap Home > Settings > Port Connection, to set the parameters.

Settings	< Port Connection	< Generator Control
品 Communication Settings >	Generator Control	Generator Type:
₽ Quick Settings >	Load Control	
Basic Settings >		Load Control
Advanced Settings		
¢ Port Connection		Dry Contact Mode Mode SOC Mode SOC Mode
Meter/CT-Assisted Test		Switch OFF> Turn The Load On Or Off
Firmware Information		
APP Version V5.6.0		
Home Parameters		

Step 2 Select Generator Control or Load Control based on actual needs.

Step 3 (Optional) When setting the generator control function, select the generator type according to the actual access situation. Currently supported:**Not Installed**, **Manual Control Of Generator**, or **Automatic Control Generator**. And set the parameters according to the selected generator type.

- Not Installed: if no generator is connected, select Not Installed.
- Manual Control Of Generator(Doesn't Support Dry Node Connection):
- Automatic control generator (Supports dry node connection):

< Generato	Generator Control		
Generator Type:			
Manual control of gene (Doesn't support dry no	erator ode conne	ction)	~
Generator information set	tings		
Rated Power The rated power of the generat power>load power * 1.5, unit: k	9.00 tor, suggested W	9.00 generato	✓ or rated
Upper Voltage Range[80,280]V	280	280	~
Lower Voltage Range[80,280]V	180	180	~
Upper Frequency Range[45,65]Hz	55.00	55.00	~
Lower Frequency Range[45,65]Hz	45.00	45.00	~
Delay Time Before Loa Range[10,300]s Preheating time for no-load get	ading 10	10 e loading	~
Generator To Charge The	Battery		
Switch			
Max Charging Power (% of rated power of generator	‰) 1000	1000	~
Turn-on Voltage Range[40,55]V	450	450	~
Close Voltage Range[45,60]V	500	500	~



No.	Parameters	Description			
1	Startup Mode	Switch Control Mode/Automatic Control Mode			
2	Generator Dry Node Switch	Only for Switch Control Mode. Enable Generator Dry Node Switch to start the generator.			
3	Prohibited Working Hours	Only for Automatic Control Mode. Set the time period during which the generator cannot work.			
Genera	Generator Information Settings				
4	Rated Power	Set the rated power of the generator.			
5	Running Time	Set the generator's continuous runtime, after which the genera- tor will be turned off.			
6	Upper Voltage	Cat the exercise voltage range of the concreter			
7	Lower Voltage	set the operation voltage range of the generator.			
8	Upper Frequency	Sat the operation frequency range of the generator			
9	Lower Frequency	set the operation nequency range of the generator.			
10	Delay Time Before Loading	Set the time generator running without loads.			
Generator To Charge The Battery					
11	Max Charging Power	Set the charging power to charge the battery with a generator.			
12	Start SOC	Set the SOC threshold to turn on the generator when lithium batteries are connected. The dry contact will be connected to start the generator when the battery SOC is lower than Start SOC .			
13	Stop SOC	Set the SOC threshold to turn off the generator when lithium batteries are connected. The dry contact will be disconnected to stop the generator when the battery SOC is higher than Stop SOC.			
14	Turn-on Voltage	Set the voltage threshold to turn on the generator when lead-acid batteries are connected. The dry contact will be con- nected to start the generator when the battery voltage is lower than Turn-on Voltage .			
15	Close Voltage	Set the voltage threshold to turn off the generator when lead-acid batteries are connected. The dry contact will be disconnected to stop the generator when the battery voltage is higher than Close Voltage .			

Step 4 (Optional) Set the control mode based on actual needs. Currently supports: **Dry Contact Mode, Time Mode, SOC Mode**.

• **Dry Contact Mode**: when the switch is **ON**, the loads will be powered; when the switch is **OFF**, the power will be cut off. Turn on or off the switch based on actual needs.



• **Time Mode**: set the time to enable the load, and the load will be powered automatically within the setting time period. Select standard mode or intelligent mode.

Load Control			Select Mode:	
Ory Contact Mode				
	Time Mode	SOC Mode	Standard The load will turn on within	the set time
The load is turned 00:00-02 Monday Tuesda	on or off under co :00 y	ertain conditions Standard	Intelligent In the set time range, when photovoltaic exceeds the se the load will be turned on	the excess energy of the et rated power of the load,
00:00-06 Never	:00	Standard	Start Time	00:0
17:00-19:′	10	Standard	End Time	00:0
Kind Tips:	and it will be over	cuted in the order of	Repeat	Nev
the list	up3, it iiii bu ux		Load Consumption Ti	me O m
			After the load is turned on, Range [10,1440] min	the shortest running time
			Load Rated Power	0.00 kV
			When the excess photovolt rated power, the load will tu	aic energy exceeds the loa rn on

No.	Parameters	Description	
1	Standard	The loads will be powered within the setting time period.	
2	Intelligent	Once the excess energy of the photovoltaic exceeds the load nominal power within the time period, the loads will be powered.	
3	Start Time	The time mode will be on between the Start Time and End Time .	
4	End Time		
5	Repeat	The repeat days.	
No.	Parameters	Description	
-----	--------------------------	---	
6	Load Consumption Time	The shortest load working time after the loads been powered. The time is set to prevent the loads be turned on and off frequently when the PV power fluctuates greatly. Only for Intelligent mode.	
7	Load Rated Power	The loads will be powered when the excess energy of the photovoltaic exceeds the nominal power of load. Only for Intelligent mode.	

• **SOC Mode**: the inverter has integrated dry contact controlling port, which can control whether the load is powered or not by contactor. In off-grid mode, the load connected to the port will not be powered if the BACKUP overload is detected or the battery SOC value is lower than the Off-grid battery protection value. Set **Off-grid Battery Protection** Value based on actual needs.

<	Load Contro	ol	
Load Control			
Dry Contact Mode	S Time Mode	e () s	OC Mode
Off-grid mode Wh interface controls backup load	en the battery S the contactor to	OC is low, turn off a	the DO part of the
Off-grid Batter Value	y Protection	60	%
When the battery DO interface will o Range [10,90]	SOC is lower tha control part of the	n the set v e load to tu	alue, the Irn off

04 App Operations for Hybrid Inverters

Type II

NOTICE

- Only for ET40-50kW series inverters.
- Generator connection and control is supported only when an STS is connected to the inverter.
- Load control is supported only when an STS is connected to the inverter. The inverter can control loads connected to the GENERATOR port or BACKUP LOAD port of the STS.

Step 1 Tap Home > Settings > Port Connection, to set the parameters.

Settings	< Port Connection
	Port Connection
器 Communication Settings >	Generator Connection
Cuick Settings	
Basic Settings >	Load Connection
Image: Advanced Settings >	Generator Control >
♦ Port Connection	→
A Meter/CT-Assisted Test	Backup Load Control >
Firmware Information	
(i) APP Version	
Home Parameters	

Step 2 Select Generator Connection or Load Connection based on actual needs.

Step 3 (Optional) When setting the generator control function, select the generator type according to the actual access situation. Currently supported:**Not Installed**, **Manual Control Of Generator**, or **Automatic Control Generator**. And set the parameters according to the selected generator type.

- Not Installed: if no generator is connected in the system, select Not Installed.
- Manual Control Of Generator(Doesn't Support Dry Node Connection): Start or stop the generator manually. The inverter cannot control the generator when Manual Control Of Generator(Doesn't Support Dry Node Connection) is selected.
- Automatic control generator (Supports dry node connection): If the generator has dry contact port and is connected to the inverter, set the generator control mode to Switch Control Mode or Automatic Control Mode based on actual needs.
 - Switch Control Mode: The generator will start working when the Generator Dry Node Switch is on, and stop automatically after reaching Run Time.
 - Automatic Control Mode: The generator will work during Run Time, but stop working during Prohibited Working Hours.

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C Port Connection		< Generator Control	<
rt Connection		Conerstor Tupe:	Gene
Generator Connection	0	Not installed generator	Au (S
4 Load Connection			Star Swi
LINGTON -		C Generator Control	Aut
Generator Control		Generator Type:	Proh
Backup Load Control	>	Manual control of generator (Doesn't support dry node connection)	00 Neve
		Generator information settings	Gen
		Rated Power 100.00 100.00 🗸	Rate
		Range [0,650]kW	Rang
		Upper Voltage 280 280 🗸	Run

Generator Type:					
Not Installed generator					
< Gener	rator Cont	rol			
Generator Type:					
Manual control of (Doesn't support of	generator Iry node o	connectio	n) 🗸		
Generator information	settings				
Rated Power	100.00	100.00	 		
Range [0,650]kW					
Upper Voltage	280	280	 		
Lower Voltage	180	180	~		
Range [80,280]V					
Upper Frequency	65.00	65.00	 		
Range [45,65]Hz	15.00	15.00			
Range [45,65]Hz	45.00	45.00			
Delay Time Before Loading	10	10	~		
Range [10,300]s Preheating time for no-lo	ad generato	or before loa	ading		
Generator To Charge T	he Battery				
Switch					
Max Charging Power (‰)	1000	1000			
‰ of rated power of ger	ierator				
SOC for Starting Charging	80	80	~		
Range [20,90]%					
SOC For Stopping Charging	90	90	 Image: A start of the start of		
Range [40,95]%					

< Gener	rator Cont	rol				
Generator Type:						
Automatic control (Supports dry nod	generato e connec	r tion)	~			
Startup Mode Switch Control Mod	e					
Automatic Control N	Node		0			
Prohibited Working Hou	urs					
00:00-00:00 Never						
Generator information s	settings					
Rated Power	100.00	100.00	~			
Run time	24.0	24.0	~			
Range [0,24]h The continuous operating After the continuous ope generator will automatica	g time of the ration time ally shut dov	ends, the vn.				
Upper Voltage	280	280	~			
Lower Voltage Range [80,280]V	180	180	 			
Upper Frequency Range [45,65]Hz	65.00	65.00	~			
Lower Frequency	45.00	45.00	~			
Delay Time Before Loading	10	10	~			
Range [10,300]s Preheating time for no-lo	ad generato	or before loa	ading			
Generator To Charge TI	he Battery					
Switch						
Max Charging Power (‰)	1000	1000				
SOC for Starting Charging	80	80				
Range [20,90]%						
SOC For Stopping Charging Range [40,95]%	90	90	~			

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No.	Parameters	Description			
1	Startup Mode	Switch Control Mode/Automatic Control Mode			
Switch	Control Mode				
2	Generator Dry Node Switch	Only for Switch Control Mode. Enable Generator Dry Node Switch to start the generator.			
3	Run Time	Set the generator's continuous runtime, after which the genera- tor will be turned off.			
Autom	atic Control Mode				
4	Prohibited Working Hours	Only for Automatic Control Mode. Set the time period during which the generator cannot work.			
5	Run Time	Set the generator's continuous runtime, after which the genera- tor will be turned off.			

No.	Parameters	Description				
Generator Information Settings						
1	Rated Power	Set the rated power of the generator.				
2	Upper Voltage	Set the exercise voltage range of the generator				
3	Lower Voltage	Set the operation voltage range of the generator.				
4	Upper Frequency	Cat the exercise frequency range of the generator				
5	Lower Frequency	Set the operation requency range of the generator.				
6	Delay Time Before Loading	Set the time generator running without loads.				
Genera	ator To Charge The Batt	rery				
7	Max Charging Power	Set the charging power to charge the battery with a generator.				
8	SOC for Starting Charging	Set the SOC threshold to turn on the generator when lithium batteries are connected. The dry contact will be connected to start the generator when the battery SOC is lower than SOC for Starting Charging.				
9	SOC for Stoping Charging	Set the SOC threshold to turn off the generator when lithium batteries are connected. The dry contact will be disconnected to stop the generator when the battery SOC is higher than SOC for Stoping Charging.				
11	Turn-on Voltage	Set the voltage threshold to turn on the generator when lead-acid batteries are connected. The dry contact will be con- nected to start the generator when the battery voltage is lower than Turn-on Voltage .				
12	Close Voltage	Set the voltage threshold to turn off the generator when lead-acid batteries are connected. The dry contact will be disconnected to stop the generator when the battery voltage is higher than Close Voltage .				

Step 4 (Optional) Control loads connected to the GENERATOR port or BACKUP LOAD port. Set the control mode based on actual needs. Currently supports: **Dry Contact Mode, Time Mode, SOC Mode**.

- **Dry Contact Mode**: when the switch is **ON**, the loads will be powered; when the switch is **OFF**, the power will be cut off. Turn on or off the switch based on actual needs.
- **Time Mode**: set the time to enable the load, and the load will be powered automatically within the setting time period. Select standard mode or intelligent mode.

No.	Parameters	Description
1	Standard	The loads will be powered within the setting time period.
2	Intelligent	Once the excess energy of the photovoltaic exceeds the load nominal power within the time period, the loads will be powered.
3	Start Time	The time mode will be on between the Start Time and End
4	End Time	Time.
5	Repeat	The repeat days.
6	Load Consumption Time	The shortest load working time after the loads been powered. The time is set to prevent the loads be turned on and off frequently when the PV power fluctuates greatly. Only for Intelligent mode.
7	Load Rated Power	The loads will be powered when the excess energy of the photovoltaic exceeds the nominal power of load. Only for Intelligent mode.

 SOC Mode: the STS has integrated dry contact controlling port, which can control whether the load is powered or not by contactor. In off-grid mode, the load connected to the port will not be powered if the BACKUP/GENERATOR overload is detected or the battery SOC value is lower than the Off-grid battery protection value. Set Off-grid Battery Protection Value based on actual needs.



4.22 Equipment Maintenance

4.22.1 Meter/CT-Assisted Test

Meter/CT-Assisted Test is used to auto-check if the Smart Meter and CT are connected in the right way and their working status.

Step 1 Tap Home > Settings > Meter/CT Assisted Test to set the function.

Step 2 Tap **Start Test** to start test. Check **Test Result** after test.



4.22.2 Checking Firmware Information/Upgrading Firmware Version

NOTICE

- Upgrade the DSP version, ARM version, BMS version, AFCI version, or STS version of the inverter, or firmware version of the communication module. Some devices do not support upgrading the firmware version through SolarGo app.
- If the Firmware Upgrade dialog box pops up once logging into the app, click **Firmware Upgrade** to directly go to the firmware information page.

Type I

NOTICE

- When prompted by a red dot on the right of the **Firmware Information**, click to get the firmware update information.
- During the upgrade process, ensure that the network is stable and the device remains connected to SolarGo, otherwise the upgrade may fail.

Step 1 Tap **Home > Settings > Firmware Information** to check the firmware version.

Step 2 (Optional) Tap Check For Update to check whether there is a latest version to be updated.

Step 3 Tap Firmware Information as prompted to enter the firmware upgrade page.

Step 4 (Optional) Tap Learn More to check the firmware related information, such as Current

Version, New Version, Update Record, etc.

Step 5 Tap **Upgrade** and follow the prompts to complete the upgrading.

Settings			<	Firmware Information	Ē	<	Update Record
品 Cor	mmunication Settings	>	DSP FW Versi	ion:			
巧 Qui	ick Settings	,	ARM FW Vers	sion:			
			BAT1 BMS FW	V Version:			
Basi	ic Settings	>	BAT2 BMS FV	V Version:			
🗟 Adva	anced Settings	>	Communicatio	on Module FW Version:			
≬ ∳ Port	Connection	>	AFCI FW Vers	sion:			
🛃 Mete	er/CT-Assisted Test	>	03				
💮 Firm	ware Information		Remote Maint ON:Allow the after manufacturer to module (you nee	tenance ter-sales service of the devic remotely upgrade the comm ed to go to Settings - Commi	e unication		
i APP	Version	V5.6.0	Settings - WLAN module to the cle	V/LAN to configure the comm loud network)	unication		
Home	Parameters Set	Dings	Kind Reminde Please keep tl to obtain the l information.	er: he mobile cloud network latest firmware version	< normal		

Type II

NOTICE

- The automatic upgrade function is allowed only when a WiFi/LAN Kit-20 or WiFi Kit-20 module is applied, and the module firmware version is V2.0.1 and above.
- After enabling the auto-upgrade function, if there is any update and the device is connected to the network, the kit firmware version can be automatically upgraded.

Step 1 Tap Home > Settings > Firmware Information to check the firmware version.

Step 2 Tap O or O to enable or disable the **Automatic Upgrade**.

4.22.3 Change the WiFi Password

NOTICE

The WiFi password of the communication module can be changed. Keep the changed password in mind after changing it. Contact the after-sales service if you forget the password.

Step 1 Tap **Home > Settings > Communication Setting > Change Password**, to change the password.

Step 2 Change the password based on actual needs.

5 App Operations for Micro Inverters

NOTICE

- All the user interface (UI) screenshots or words in this document are based on SolarGo app V6.0.0. The UI may be different due to the version upgrade. The screenshots, words or data are for reference only.
- The method to set parameters is the same for all inverters. But the parameters displayed varies based on the equipment model and safety code. Refer to the actual interface display for specific parameters.
- Before setting any parameters, read through user manual of the app and the inverter 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 in compliance with related requirements and damage the battery, which will affect the inverter's power generation.

5.1 Log In as Micro Inverter

Step 1 Ensure that the inverter is power on and works properly.

Step 2 Select **Bluetooth** tab on the SolarGo app hompage.

Step 3 Pull down or tap **Search Device** to refresh the device list. Find the device by the the inverter serial number. Tap the device name to log into the **Home** page.

Step 4 (optional): For first connection with the inverter via Bluetooth, there will be a Bluetooth pairing prompt, tap **Pair** to continue the connection.

Device List \bigcirc (?) ... **Device List** ... **Device List** Bluetooth WLAN Bluetooth WLAN Bluetooth WLAN CCM-5 CCM-23000EZL21B50020 CCM-53000SSA238GS019 WLA-> **Bluetooth Pairing Request** > WNNwould like to pair with your iPhone SOL-BLE > Pair 🔻 🔐 WFA-1 GSA-> Not Found > Not Found > Not Found >

Step 5 Log in as an Owner or an Installer. Password: 1234.



← 9015	237W	0002	
Status:Normal (On-Grid)	13.25 0.00	nit:kW
Safety Power Grid Code Warehouse	0	Working Mode Peak Shaving	۲
Battery Model LX F16.0-H-20		Battery Status Normal	INC
Backup	88	Power Limit OFF	<u>\$</u>

5.2 GUI Introductions to Micro Inverters



No.	Name/Icon	Description
1	Serial Number	Serial number of the connected inverter.
2	Device Status	Indicates the status of the inverter, such as Working , Fault , etc.
3	Energy Flow Chart	Indicates the energy flow chart of the PV system. The actual page prevails.
4	System Status	Indicates the working status of the PV system, such as Etotal , Safety Country, AC Current, AC Voltage , etc.
5	A	Home Tap Home to checkSerial Number, Device Status, Energy Flow Chart, System Status, etc.
6	Ē	Parameters Tap Parameters to check the inverter Data , like Device Model , FW Version , PV , AC Current , AC Voltage , etc Or check Alarm like Utility Loss , Undervoltage , etc
7	\odot	Settings Tap Settings to set parameters like Safety Code, Commu- nication Settings, Power Limit, Firmware Update, AFCI Detec- tion, Equipment Power Supply, etc

5.3 Setting the Basic Information

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

Step 2 (Optional) Tap Safety Code > Export to export the default value of some parameters.

Settings	< Basic Settings		< Safety Code	Export
品 Communication Settings	Safety Code	BE >	Safety Code	BE>
000	Power Scheduling	>	Corresponding Parameters:	
Basic Settings >	►og Export	>	Grid Rated Voltage	230V
			Anti-Islanding	OFF
U Power on/off			Anti-islanding Trip Time	2s
			Voltage Protection Parameters:	
Firmware Information			OV Stage1 Trip Value	115.0%Vn
Change Login Password			OV Stage1 Trip Time	0.160s
			UV Stage1 Trip Value	80.0%Vn
			UV Stage1 Trip Time	0.160s
			OV Stage2 Trip Value	0.0%Vn
			OV Stage2 Trip Time	0.000s
Home Parameters			UV Stage2 Trip Value	0.0%Vn

No.	Parameters	Description
1	Safety Code	Set the safety country in compliance with local grid standards and application scenario of the inverter. The default parameters varies depending on different safety code. The safety parameters can be changed in Safety Parameters. Password for changing the safety parameters: goodwe2010 or 1111.
2	Power Sched- uling	Set the power scheduling mode. Support: Active Dispatch and Reac- tive Scheduling
3	Log Export	Export running log of the inverter.

Step 3 (Optional) Tap**Power Scheduling > Active Dispatch** to set the active power scheduling. Based on actual needs, select**Disable**, **Fixed Value Derating** or **Percent Derating** from the drop down list, and set the **Active Power**. Tap v to save the **Active Power**.

Step 4 (Optional) Tap Power Scheduling > Reactive Scheduling to set the reactive power scheduling. Based on actual needs, selectDisable, Fixed Value Compensation, Percent Compensation or PF Compensation. Set the Status to Over-excited or Under-excited. And enter the Reactive Power value or Power Factor value. Tap to save the settings.

05 App Operations for Micro Inverters

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< Basic Settings	< Power Scheduling	< Active Dispatch
Safety Code BE >	Active Dispatch	Active Dispatch Mode:
Power Scheduling	Reactive Scheduling	Percent Derating 🗸
Log Export >		Active Power 100.0 100.0 V
		K Reactive Scheduling
		Reactive Dispatch Mode
		Fixed Value Compensation
		Status: Over-excited Under-excited Inverter side: "Over-excited" is positive,"Under- excited" is negative.
		Reactive Power 0 0 V

No.	Parameters	Description	
Active [Active Dispatch		
1	Active Dispatch Mode	 The standards of some countries/regions require to control the active power according to the dispatch mode. Supports: Disable: disable the Active Dispatch Mode. Fixed Value Derating: enable the Active Dispatch Mode based on fixed values. Percent Derating: enable the Active Dispatch Mode based on the percentage of the rated power. 	
2	Active Power	 The Active Power is a fixed value when the Active Dispatch Mode is set to Fixed Value Derating. The Active Power is the percentage of the active power and the rated power when the Active Dispatch Mode is set to Percent Derating. 	
Reactiv	Reactive Scheduling		
3	Reactive Dis- patch Mode	 The standards of some countries/regions require to control the reactive power according to the dispatch mode. Supports: Disable: disable Reactive Dispatch Mode Fixed Value Compensation: enable the Reactive Dispatch Mode based on fixed values. Percent Compensation: enable the Reactive Dispatch Mode based on the percentage of the rated power. PF Compensation. 	

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No.	Parameters	Description
1 Chatria	Status	Set the power factor as lagging or leading based on actual needs and
4	Status	local grid standards and requirements.
		• The Reactive Power is a fixed value when the Reactive Dispatch
		Mode is set to Fixed Value Compensation.
5	Reactive Power	• The Reactive Power is the percentage of the reactive power and
		the rated power when the Reactive Dispatch Mode is set to
		Percent Compensation.
6 Pov	Deven Franker	Set the power factor when the Reactive Dispatch Mode is set to PF
	Power Factor	Compensation.

Step 5 (Optional) Tap **Log Export** > **Log Export**. After downloading the log, decide whether to encrypt the log following the prompts. If encryption is required, set a password. Tick the log to be exported, and tap**Export** to export running log of the inverter.

5.4 Setting the Power Scheduling Response Parameters

Step 1 Tap **Home > Settings > Advanced Settings > Power Scheduling Response Parameters** to set the parameters.

Step 2 Select Disable, Gradient Control, or PT-1 Behavior from the active power dispatching response mode drop down list based on actual needs. If Gradient Control is selected, enter Power Gradient value. If PT-1 Behavior is selected, enter PT-1 Behavior Tau based on actual needs.

Step 3 Select Disable, Gradient Control, or PT-1 Behavior from the Reactive Dispatching Response Mode drop down list based on actual needs. If Gradient Control is selected, enter Power Gradient value. If PT-1 Behavior is selected, enter PT-1 Behavior Tau based on actual needs.

Step 4 Tap 🖌 to save the settings.

05 App Operations for Micro Inverters

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Settings	< Advanced Settings	C Power Scheduling Response Parameters
品 Communication Settings >	Power Scheduling Response Parameters	Arive Power Dispatching Response Mode
(©) Basic Settings >	Safety Parameters >	PT-1 Behaviour Tau 0 0 V
		Range[0,3600000]ms
U Power on/off >		Reactive Dispatching Response Mode
Firmware Information		Disable
Change Login Password >		
Home Parameters Setting		

No.	Parameters	Description
Active Power Dispatching Response Mode		
4	PT-1 Behavior	Realize active scheduling based on the first-order LPF curve
1		within the response time constant.
2	DT 1 Pobavior Tau	Set the time constant within which the active power changes
Z	PI-I Benavior Tau	based on the first order LPF curve.
3	Gradient Control	Realize active scheduling based on the power change slope.
4	Power Gradient	Set the active power change slope.
Reactive Dispatching Response Mode		
-	PT-1 Behavior	Realize reactive scheduling based on the first-order LPF curve
5		within the response time constant.
c	PT-1 Behavior Tau	Set the time constant within which the reactive power changes
0		based on the first order LPF curve.
7	Gradient Control	Realize reactive scheduling based on the power change slope.
8	Power Gradient	Set the reactive power change slope.

5.5 Setting Safety Parameters

Set the custom safety parameters in compliance with local requirements. Do not change the parameters without the prior consent of the grid company.

NOTICE

Settings	< Advanced Settings	< Safety Parameters
器 Communication Settings >	Remote Shutdown	Active Curve Settings
	DRED	Reactive Curve Settings
Basic Settings	RCR	Protection Parameters
Advanced Settings	PID Repair	Connection Parameters
¢ ∳ Load Control >	Power Limit	Voltage Ride Through
U Power on/off >	N-PE Voltage Detection	Frageware w Dide Through
Firmware Information		Frequency Ride Inrougn
Change Login Password >	Power Scheduling Response > Parameters	
	Safety Parameters	-
Home Parameters		

5.5.1 Setting the Active Curve

5.5.1.1 Setting the P(F) Curve

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Active Curve Settings to set the parameters.

Step 2 Set the parameters based on actual needs.





No.	Parameters	Description	
1	P(F) Curve	Enable P(F) Curve when it is required by local grid standards and requirements.	
Overfre	quency Unloading		
2	Overfrequency Threshold	The inverter output active power will decrease when the utility grid frequency is too high. The inverter output power will decrease when the utility grid frequency is higher than Overfrequency Threshold .	
3	Overfrequency Endpoint	The inverter output active power will decrease when the utility grid frequency is too high. The inverter output power will stop decreasing when the utility grid frequency is higher than Overfrequency Endpoint .	
4	Power Reference	Adjust the inverter output power based on Apparent Active Pow- er, Rated Active Power, Momentary Active Power, Or Max. Active Power.	
5	Power Response To Underfrequency Gradient	The inverter output active power will decrease when the utility grid frequency is too high. Indicates the slope when the inverter output power decreases.	
6	Tentional Delay Ta	Indicates the delayed response time when the inverter output power is higher than the Overfrequency Threshold .	
7	Hysteretic Power Recovery Slope	Indicates the variation slope when the power recovers.	
Underfr	Underfrequency Loading		
8	Underfrequency Threshold	The inverter output active power will increase when the utility grid frequency is too low. The inverter output power will increase when the utility grid frequency is lower than Underfrequency Threshold .	
9	Underfrequency Endpoint	The inverter output active power will increase when the utility grid frequency is too low. The inverter output power will stop increasing when the utility grid frequency is lower than Underfrequency Endpoint .	
10	Power Reference	Adjust the inverter output power based on Apparent Active Pow- er, Rated Active Power, Momentary Active Power, Or Max. Active Power.	
11	Power Response To Underfrequency Gradient	The inverter output active power will increase when the utility grid frequency is too low. Indicates the slope when the inverter output power increases.	
12	Tentional Delay Ta	Indicates the delayed response time when the inverter output power is lower than the Underfrequency Threshold .	
13	Hysteretic Power Recovery Slope	Indicates the variation slope when the power recovers.	

5.5.1.2 Setting the P(U) Curve

When the grid voltage is too high, decrease the inverter output power to decrease the grid-tied power.

Step 1 Tap **Home > Settings > Advanced Settings > Safety Parameters > Active Power Mode Settings** to set the parameters.

Step 2 Enter the parameters. 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.



No.	Parameters	Description
1	P(U) Curve	Enable P(U) Curve when it is required by local grid standards and requirements.
2	Vn Voltage	The percentage of actual voltage to the rated voltage at Vn point, n=1, 2, 3, 4. For example, setting Vn Voltage to 90 means V/V _{rated} %=90%.
3	Vn Active Power	The percentage of the output active power to the apparent power at Vn point, (n=1, 2, 3, 4). For example, setting Vn Reactive Power to 48.5 means P/ P_{rated} %=48.5%
4	Output Response Mode	 Set the active power output response mode. Supports: PT-1 Behavior, realize active scheduling based on the first-or- der LPF curve within the response time constant. Gradient Control, realize active scheduling based on the pow- er change slope.
5	PT-1 Behavior Tau	Set the time constant within which the active power changes based on the first order LPF curve.
6	Power Gradient	Set the active power change slope.

5.5.2 Setting the Reactive Curve

5.5.2.1 Setting the Q(U) Curve

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Reactive Curve Settings to set the parameters.

Step 2 Enter the parameters. 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.



No.	Parameters	Description
1	Q(U) Curve	Enable Q(U) Curve when it is required by local grid standards and requirements.
2	Vn Voltage	The percentage of actual voltage to the rated voltage at Vn point, n=1, 2, 3, 4. For example, setting Vn Voltage to 90 means V/V _{rated} %=90%.
3	Vn Reactive Power	The percentage of the reactive output power to the apparent power at Vn point, n=1, 2, 3, 4. For example, setting Vn Reactive Power to 48.5 means Q/ S_{rated} %=48.5%
4	Time Constant	The power is required to reach 95% in the first order LPF curve within three time constant.
5	Lock-In Power	When the inverter output reactive power to the rated power ratio is
6	Lock-out Power	curve requirements.
7	Min. cosPhi	Set the lower limit of the power factor.

5.5.2.2 Setting the Q(P) Curve

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Reactive Curve Settings to set the parameters.

Step 2 Enter the parameters. 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.



No.	Parameters	Description
1	Q(P) Curve	Enable Q(P) Curve when it is required by local grid standards and requirements.
2	Pn Reactive Power	The percentage of the output reactive power to the rated power at Pn point, n=1, 2, 3, 4, 5, 6. For example, setting Vn Active Power to 90 means Q/P _{rated} %=90%.
3	Pn Power	The percentage of the output active power to the rated power at Pn point, n=1, 2, 3, 4, 5, 6. For example, setting Pn Active Power to 90 means P/P _{rated} %=90%.
4	Time Constant	The power is required to reach 95% in the first order LPF curve within three time constant.

5.5.2.3 Setting the Cosφ(P) Curve

Step 1 Tap **Home > Settings > Advanced Settings > Safety Parameters > Reactive Curve Settings** to set the parameters.

Step 2 Enter the parameters. 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.



No.	Parameters	Description
1		Enable $\text{Cos}\phi$ Curve when it is required by local grid standards and
I	Cosφ(F) Cui ve	requirements.
r	Point A/B/C/D	The percentage of the inverter output active power to the rated
2	Power	power at point A/B/C.
3	Point A/B/C/D Cosφ	The power factor at point A/B/C.
4	Time Constant	The power is required to reach 95% in the first order LPF curve
4		within three time constant.
5	Lock-in Voltage	When the grid voltage is between Lock-in Voltage and Lock-out
6	Lock-out Voltage	Voltage, the voltage meets Cosφ curve requirements.
7	Lock out Dowor	The Cos ϕ curve cannot work when the output active power to rated
	LOCK-OUL POWER	power ratio is lower than the Lock-out Power .

5.5.3 Setting Protection Parameters

5.5.3.1 Setting Voltage Protection Parameters

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Protection Parameters to set the parameters.

Step 2 Set the parameters based on actual needs.

No.	Parameters	Description			
1	OV Stage n Trip Value	Set the grid overvoltage protection threshold value.			
2	OV Stage n Trip Time	Set the grid overvoltage protection tripping time.			
3	UV Stage n Trip Value	Set the grid undervoltage protection threshold value.			
4	UV Stage n Trip Time	Set the grid undervoltage protection tripping time.			
5	10Min Overvoltage Trip Threshold	Set the 10min overvoltage protection threshold value.			
6	10Min Overvoltage Trip Time	Set the 10min overvoltage protection tripping time.			

5.5.3.2 Setting Frequency Protection Parameters

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Protection Parameters to set the parameters.

Step 2 Set the parameters based on actual needs.

No.	Parameters	Description
1	OF Stage n Trip Value	Set the grid overfrequency protection threshold value.
2	OF Stage n Trip Time	Set the grid overfrequency protection tripping time.
3	UF Stage n Trip Value	Set the grid underfrequency protection threshold value.
4	UF Stage n Trip Time	Set the grid underfrequency protection tripping time.

5.5.4 Setting Connection Parameters

Step 1 Tap Home > Settings > Advanced Settings > Safety Parameters > Connection Parameters to set the parameters.

Step 2 Set the parameters based on actual needs.



No.	Parameters	Description
Ramp	Up	
1	Upper Voltage	The inverter cannot connect to the grid if it is powered on for the first connection and the grid voltage is higher than the Upper Voltage .
2	Lower Voltage	The inverter cannot connect to the grid if it is powered on for the first connection and the grid voltage is lower than the Lower Voltage .
3	Upper Frequency	The inverter cannot connect to the grid if it is powered on for the first connection and the grid frequency is higher than the Upper Frequency .
4	Lower Frequency	The inverter cannot connect to the grid if it is powered on for the first connection and the grid frequency is lower than the Lower Frequency .
5	Observation Time	The waiting time for connecting the inverter to the grid when meeting the following requirements. 1. The inverter is powered on for the first connection.
		2. The utility grid voltage and frequency meet certain requirements.

No.	Parameters	Description
6	Soft Ramp Up Gradient	Indicates the percentage of incremental output power per minute based on the local requirements when the inverter is powered on for the first time. For example, setting Soft Ramp Up Gradient to 10 means the start- up slope is 10%P _{rated} /min.
Recon	nection	
7	Upper Voltage	The inverter cannot connect to the grid if it is reconnecting due to a fault and the grid voltage is higher than the Upper Voltage .
8	Lower Voltage	The inverter cannot connect to the grid if it is reconnecting due to a fault and the grid voltage is lower than the Lower Voltage .
9	Upper Frequency	The inverter cannot connect to the grid if it is reconnecting due to a fault and the grid frequency is higher than the Upper Frequency .
10	Lower Frequency	The inverter cannot connect to the grid if it is reconnecting due to a fault and the grid frequency is lower than the Lower Frequency .
11	Observation Time	The waiting time for connecting the inverter to the grid when meeting the following requirements.1. The inverter is reconnecting to the grid due to a fault.2. The utility grid voltage and frequency meet certain requirements.
12	Reconnection Gradient	Indicates the duration for the output power increases to the rated power when the inverter reconnects to the utility grid due to a fault.

5.5.5 Setting Voltage Ride Through Parameters

Step 1 Tap **Home > Settings > Advanced Settings > Safety Parameters > Voltage Ride Through** to set the parameters.

Step	2	Set the	parameters	based	on	actual	needs.
------	---	---------	------------	-------	----	--------	--------

No.	Parameters	Description				
LVRT						
1	UVn Voltage	The ratio of the ride through voltage to the rated voltage at UVn point during LVRT.				
2	UVn Time	The ride through time at UVn point during LVRT.				
3	Enter Into LVRT Thresh- old	The inverter will not be disconnected from the utility grid immediately when the grid voltage is between Enter Into LVRT				
4	Exit LVRT Endpoint	Threshold and Exit LVRT Endpoint.				
5	Gradient K1	K-factor for reactive power during LVRT.				
6	Zero Current Mode	The system outputs zero current during LVRT.				
7	Entry Thresh- old	Set the entry threshold of zero current mode.				
HVRT						
6	OVn Voltage	The ratio of the ride through voltage to the rated voltage at OVn point during HVRT.				
7	OVn Time	The ride through time at OVn point during HVRT.				
8	Enter High Crossing Threshold	The inverter will not be disconnected from the utility grid				
9 Exit High 9 Crossing Threshold		Immediately when the grid voltage is between Enter High Crossing Threshold and Exit High Crossing Threshold.				
10	Slope K2	K-factor for reactive power during HVRT.				
11	Zero Current Mode	The system outputs zero current during HVRT.				
12	Entry Thresh- old	Set the entry threshold of zero current mode.				

5.5.6 Setting Frequency Ride Through Parameters

Step 1 Tap **Home > Settings > Advanced Settings > Safety Parameters > Frequency Ride Through** to set the parameters.

Step 2 Set the parameters based on actual needs.

No.	Parameters	Description
1	UFn Frequency	The frequency at the UFn point during frequency ride through.
2	UFn Time	The ride through duration at the UFn point during frequen- cy ride through.
3	OFn Frequency	The frequency at the OFn point during frequency ride through.
4	OFn Time	The ride through duration at the OFn point during frequen- cy ride through.

5.6 Configuring Communication Parameters

5.6.1 Configuring WiFi

Step 1 Tap Home > Settings > Communication Settings > WiFi to set the parameters

Step 2 Enable or disable WLAN based on actual needs.

Step 3 Tap Network Name to select the right network.

Step 4 Enter Password for the actual connected network.

Step 5 Enable or disable **DHCP** based on actual needs. Configure **IP Address**, **Subnet Mask**, **Gateway Address**, and **DNS Server** according to the router or switch information when **DHCP** is disabled.

Step 6 Tap Save to complete the settings.

Settings	Communication Settings			<	WLAN	Save
品 Communication Settings >>	WLAN	>	┝	WLAN		
	WLAN Mesh	>		Network Name		
Basic Settings				TP-LINK_Network		\sim
				Password		¥
U Power on/off >						
Firmware Information				Restore factory co	mmunication setti	ngs
Change Login Password >						
			L			
Home Parameters Settings						

No.	Parameters	Description			
1	Network Name	Select WiFi based on the actual connecting.			
2	Password	WiFi password for the actual connected network.			
3	DHCP	 Enable DHCP when the router is in dynamic IP mode. Disable DHCP when a switch is used or the router is in static IP mode. 			
4	IP Address				
5	Subnet Mask	• Do not configure the parameters when DHCP is enabled.			
6	Gateway Address	• Configure the parameters according to the router or switch information when DHCP is disabled.			
7	DNS Server				

5.6.2 Configuring WiFi Mesh

Step 1 Tap **Home > Settings > Communication Settings > WiFi Mesh** to set the parameters.

Step 2 Set the inverter as the **Networking Master Node** of the WiFi mesh. The inverter with higher RSSI is recommended to be set as the root node.

Settings		Communication Settings		< WLAN Mesh	
品 Communication Settings >		WLAN	>	Device IP	172.18.0.143
		WLAN Mesh		Network status	Connected
Basic Settings >				RSSI Strength	100
ᢙ Advanced Settings >				Networking Master Node	
U Power on/off >				If network communication is unstable, recommended to choose the device cl router in the power station as the main enhance WLAN coverage.	t is osest to the node to
Firmware Information					
Change Login Password >					
Home Parameters					

5.7 Starting/Stopping the Grid

Step 1 Tap Home > Settings > Advanced Settings > Equipment Power Supply.

Step 2 Tap Start to start grid connection or tap Stop to stop grid connection.



5.8 Upgrading Firmware Version

NOTICE

- Upgrade the DSP version or ARM version of the inverter. Some devices do not support upgrading the firmware version through SolarGo app.
- If the Firmware Upgrade dialog box pops up once logging into the app, click **Firmware Upgrade** to directly go to the firmware information page.



Type I

Local Upgrade Requirements:

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

Step 1 Tap **Home > Settings > Firmware Information** to check the firmware version. **Step 2** Tap ••• > **Upload Firmware** to import local upgrade patch. Tap **Upgrade** and follow the prompts to complete the upgrading.

Step 3 (Optional) Tap ••• > **Update Record** to check firmware upgrade records.

Type II

NOTICE

- When prompted by a red dot on the right of the **Firmware Information**, click to get the firmware update information.
- During the upgrade process, ensure that the network is stable and the device remains connected to SolarGo, otherwise the upgrade may fail.

Step 1 Tap Home > Settings > Firmware Information to check the firmware version.

Step 2 (Optional) Tap Check For Update to check whether there is a latest version to be updated.

Step 3 Tap Firmware Upgrade as prompted to enter the firmware upgrade page.

Step 4 (Optional) Tap Learn More to check the firmware related information, such as Current

Version, New Version, Update Record, etc.

Step 5 Tap **Upgrade** and follow the prompts to complete the upgrading.

6 AC Charger

6.1 Log In as AC Charger

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.

Step 1 Ensure that the charger is power on and works properly.

Step 2 Select **Bluetooth** tab on the SolarGo app hompage.

Step 3 Pull down or tap **Search Device** to refresh the device list. Find the device by the the charger serial number. Tap the device name to log into the **Home** page.

Step 4(optional): For first connection with the equipment via Bluetooth, there will be a Bluetooth pairing prompt, tap **Pair** to continue the connection.

Step 5 Enter the login password to go to the homepage. Initial password: goodwe2022.

Step 6 (Optional): If the initial password is used, the app will prompt you to change the password after logging in. Change it or not according to your actual needs.

Device List (?) () () () () () () () () () () () () ()	Device List 🍙 💿 💬	<
WLAN		2
	≉ _{at} wla-	Login
	<pre>\$ " WNN- > > \$</pre>	RemeInitial password: goodwe2022 Login
No Device	≉ " wfa-	
2 Search Device Not Found >	Search Device Not Found >	 Please use the initial password for the first login. Please refer to the App user manual for the initial password of the charging pile, or consult the GoodWe after-sales service center. After logging in for the first time, please change the password as soon as possible and remember i. If you forget the password, please contact GoodWe Service Center.



6.2 GUI Introductions to AC Charger





06 AC Charger

No.	Name/Icon	Description	
1	Serial Number	Serial number of the connected inverter.	
2	Device Status	Status of the charger, such as Idle (plugged), Charing, etc	
3	 Charging status, such as The charging gun is plugged an ready to charge, Energy Charged ***kWh, etc Displays information including:charged energy, time, curre and power during charging. 		
4	Start/ End Charging	Start charging the electric vehicle (EV for short) using the charger when all the settings are completed.Start Charging: Start charging the EV.End Charging: Stop charging the EV.	
5	Charging Mode	Select the charging mode for EV.	
6	Schedule To Charge	Set the single charging time or cycle charging time.	
7	Plug And Charge	Start charging immediately after plugging in the charging plug.	
8	Communication Status	WiFi : whether the charger is communicating with the router. Cloud : whether the charger is communicating with the Cloud.	
9	Alarm Record	Check alarms.	
10	Settings	Set the parameters of the charger.	

6.3 Setting the Charger (HCA Series) 6.3.1 Setting Charging Mode

Set the **Charging Mode** and decide whether to enable **Schedule to Charge** or **Plug And Charge** before charging the EV.

Step 1 Select Fast, PV priority, or PV + Battery to set Charging Mode.

Step 2 (Optional) If **Fast** is selected, tap **Charging Power** to set the maximum charging power and tap \checkmark to save the settings.

Step 3 (Optional) Tap **Schedule To Charge** to reserve charging in advance. Set **Start Time** and **End Time**, and **Single** or **Cycle** repeat. Tap **Save** to complete the settings.

Step 4 (Optional) Enable or disable Plug And Charge based on actual needs.

Step 5 Tap Start Charging to charge EV.



No.	Parameters	Description		
1	Charging Mode	 Select the charging mode for EV. Fast: Charge the EV at the rated power of the charger. PV priority: Only the PV power is used to charge the EV. Loads take priority in PV power consumption, the remaining power will charge the EV. For a single phase charger, the PV power should be higher than 1.4kw. For a three phase charger, the PV power should be higher than 4.2kw. PV + Battery: The PV power and battery are used to charge the EV. Loads take priority in power consumption, the remaining power will charge the EV. 		

No.	Parameters	Description	
2	Schedule To Charge	Set the single charging time or cycle charging time.	
3	Plug And Charge	Start charging immediately after plugging in the charging plug.	
4	Start/ End Charging	 Start charging the EV using the charger when all the settings are completed. Start Charging: Start charging the EV. End Charging: Stop charging the EV. 	

6.3.2 Changing the Password

To ensure account security, you are advised to change the password periodically and keep the new password in mind.

Step 1 Tap **Settings** > **Change Password** to set the password.

Step 2 Enter the current password and new password. Tap **Save** to complete the settings.

Step 3 Tap **Save** to complete the settings.

€ \$6230HCA239W0567	< Settings	Change Login Password Save
Status: Waiting	Change Login Password	Please enter current password
Connected, ready to charge		Please enter the new password
	Wi-Fi Configuration >	Please enter new password again
	Restore Factory Defaults >	
Start Charging	Firmware Version V1.0.10	
	Ensure Minimum Charging Power	
Charging Mode	During limited intervals of system regulations, the solar charging process may receive support from the grid or battery to maintain the desired output.	
Image: Construction Image: Construction	ON: Continue charging with support from the grid and battery to secure minimum required power for charging (1.4kW for 7kW module, 4.2kW for 11/22kW module).	
The second second	OFF: Discontinue charging if PV surplus is no longer available.	
Schedule to charge		
Not set		
Plug And Charge		
💎 Wi-Fi 🌑 🏠 Cloud	↑	
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Alarm record >		
Settings		
6.3.3 Configuring WiFi

Configure information of the router or switch which communicates with the charger to ensure communication between the charger and router or switch. Otherwise, the charger cannot connect to the server.

Step 1 Tap **Settings** > **Wi-Fi Configuration** to configure the parameters.

Step 2 Tap **Network Name** and select the right network. Enter the **Password** of the selected network.

Step 3 Tap Save to complete the settings.

4] 50220-62379-00557	< Settings	Wi-Fi Configuration Save
Status: Waiting	Change Login Password >	Network Name
Connected, ready to charge	Wi-Fi Configuration >	Password
	Restore Factory Defaults >	***
Start Charging	Firmware Version V1.0.10	рнср
	Ensure Minimum Charging Power	If you need to set a specific IP address, you can manually enter it after turning off DHCP.
Charging Mode	During limited intervals or system regulations, the solar charging process may receive support from the grid or battery to maintain the desired output. ON: Continue charging with support from the grid and	IP Address
Fast PV Priority PV+Battery	battery to secure minimum required power for charging (1.4kW for 7kW module, 4.2kW for 11/22kW module). OFF: Discontinue charging if PV surplus is no	Subnet Mask
	longer available.	Gateway Address
Schedule to charge		DNS Server
Not set		
Plug And Charge		
💎 Wi-Fi 🌑 Cloud	•	
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Alarm record		
Settings >		

6.3.4 Restoring Factory Defaults

Follow the steps below to restore the factory default settings of the charger.

Step 1 Tap Settings > Restore Factory Defaults.

Step 2 Restore factory settings as prompted.

4 MATCH CATALANA (2014)	K Settings K Restore Factory Defaults
Status: Waiting Connected, ready to charge Start Charging	Change Login Password > Wi-Fi Configuration > Restore Factory Defaults > Firmware Version V1.0.10
Charging Mode Image: Charging Mode Image: Charging Mode Fast Image: Charge Schedule to charge Not set > Plug And Charge Image: Charge Image: Wi-Fi Image: Charge Image: Charge Image: Charge Image: Charge Image: Charge	Ensure Minimum Charging Power During imited intervals of system regulations, the solar darging process may receive support from the grid or battery to socrure minimum required power for charging (1.4kW for 7kW module, 4.2kW for 11/22kW module). OFF: Discontinue charging if PV surplus is no longer available.
Normal Normal communication communication Alarm record > Settings >	

6.3.5 Setting the Minimum Charging Power

The charger cannot charge the EV if the PV power is insufficient. If the PV power is insufficient, enable **Ensure Minimum Charging Power** to use the power from the utility grid or battery to meet the minimum charging power requirements.

Step 1 Tap **Settings** to enter the setting page.

Step 2 Enable or disable Ensure Minimum Charging Power based on actual needs.

	Cattingo
Status: Waiting	< Settings
	Change Login Password >
Connected, ready to charge	Wi-Fi Configuration >
	Restore Factory Defaults >
Start Charging	Firmware Version V1.0.10
	Ensure Minimum Charging Power
Charging Mode	During limited intervals of system regulations, the solar charging process may receive support from the grid or battery to maintain the desired output.
⊕ ≞ ≞+≘	ON: Continue charging with support from the grid and battery to secure minimum required power for charging
Fast PV Priority PV+Battery	(1.4kW for 7kW module, 4.2kW for 11/22kW module). OFF: Discontinue charging if PV surplus is no
	longer available.
Schedule to charge	
Not set	
Plug And Charge	
🐨 Wi-Fi 🌑 🏠 Cloud	▲
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communication communication	
Alarm record >	
Settings >)

6.4 Setting the Charger (HCA G2 Series)

6.4.1 Setting Charging Mode

NOTICE

- Set the **Charging Mode** and decide whether to enable **Schedule to Charge** or **Plug And Charge** before charging the EV.
- In PV charging mode, if the PV energy is insufficient, charging will be paused; if the PV energy is insufficient but **Ensure Minimum Charging Power** has been enabled, the power grid or the battery will be used to maintain the minimum power required for charging.
- In PV+BAT charging mode, if the PV+BAT energy is insufficient, charging will be paused; if the PV+BAT energy is insufficient but **Ensure Minimum Charging Power** has been enabled, the power grid will be used to maintain the minimum power required for charging.

Step 1 Select Fast, PV priority, or PV + BAT to set Charging Mode.

Step 2 (Optional) Tap Charging Mode to set the mode and tap Save to complete the settings.

Step 3 (Optional) Tap **Schedule To Charge** to reserve charging in advance. Set **Start Time** and **End Time**, and **Single** or **Cycle** repeat. Tap **Save** to complete the settings.

Step 4 (Optional) Enable or disable Plug And Charge based on actual needs.

Step 5 Tap Start Charging to charge EV.

<	Schedule	To Charge	Save	€]	57000HP	A247L1111	\odot			
		0		🔋 A	vailable					
Star	Time	End	d Time							
21 22 23 00	57 58 59 00	21 22 23 00	57 58 59 00					Charging M	Aode	∰+≣ PV+BAT
01 02 03	01 02 03	01 02	01 02 03	a				Power Range[1.4,7 The EV is c power will b	.0]kW harging at set pow	0.0 0.0
Charging	Mode		.		And Charge		<u> </u>	Load Contr	ol is present and ru	unning.
Fast	PV P	<u> </u>	PV+BAT	F	e East PV Pr	riority PV	₽+ + +BAT	Range[0,10 When Resid the Battery)]% lential Battery's SC will stop charging)C ≼setted SOC, the EV charger.
Always Re	nce e-initiate	Ev	eryday	5 3 Sche	Sta dule To Charge	art e	>	Max. Energy Unit:kWh When the s reached, th	Approximate Approximate et maximum chargi e electric vehicle w	0.0 0.0 ely Equal To0.0kn ing level is vill stop charging.
ON: Use power fr selected using ph	maximum om the grid period. If i otovoltaic/	power to d within th t has beer energy sto	draw ie n charged prage in	No Aj	ppointment		>			
the previ again. If charging and try t charging the resta	ious period possible, u i intermitter o restart cl pile at nig art time dep	l, it will no use the off nt mode e harging at ht. The su pends on t	t start -peak wery time the loccess of the car.	Not Con g	nverter	Meter Not Communi g	Status			

No.	Parameters	Description		
Fast:	The charger uses electr	icity from power grid, PV, or batteries to charge electric vehicles.		
1	Power	Set the charging power of the charger. The output power of the charger defaults to the nominal output power of the charger		
2	SOC	The battery will stop charging when the battery's SOC≤ set SOC.		
3	Max. Energy	The charger will stop charging the EV when the Max. Energy is reached.		
PV Pri	ority: Only the PV pow	er is used to charge the EV. Loads which can be grid load or back-		
up loa	d take priority in PV pc	wer consumption, the remaining power will charge the EV.		
4	Min. Energy	Set the minimum charging power for charging the EV.		
5	Finish at	Set the time required to reach the Min. Energy.		
6	Max. Energy	The charger will stop charging the EV when the Max. Energy is reached.		
PV+BAT: The PV power and battery are used to charge the EV. Loads Loads which can be grid				
load o EV.	r back-up load take pri	ority in power consumption, the remaining power will charge the		
7	SOC	The battery will stop charging when the battery's SOC \leq set SOC.		
8	Min. Energy	Set the minimum charging power for charging the EV.		
9	Finish at	Set the time required to reach the Min. Energy.		
10	Max. Energy	The charger will stop charging the EV when the Max. Energy is reached.		

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6.4.2 Configuring WiFi

Configure information of the router or switch which communicates with the charger to ensure communication between the charger and router or switch. Otherwise, the charger cannot connect to the server.

Step 1 Tap **Settings** > **Wi-Fi Configuration** to configure the parameters.

Step 2 Tap **Network Name** and select the right network. Enter the **Password** of the selected network.

Step 3 Tap Save to complete the settings.

+] 57000HPA247L1111 00	K More	Communication Settings Save		
🖁 Available				
	Communication Settings	When LAN and WLAN are configured simultaneously, LAN will be prioritized as the communication method		
	Dynamic Load Control	LAN Not Connected		
		WLAN		
GOODHE	Ensure Minimum Charging Power	Network Name		
41	charging process may receive support from the grid or battery to maintain the desired output.	GOODWE		
Plug And Charge	Ork: Continue charging with support from the grid and battery to secure minimum required power for charging (1.4kW for 7kW module, 4.2kW for 11/22kW module). OFF: Discontinue charging if PV surplus is no longer available.	Password		
Charging Mode >	Peak Power Purchase Limit			
• · · · · · · · · · · · · · · · · · · ·		рнср 💽		
Fast PV Priority PV+BAT	EV Card Management >	If you need to set a specific IP address, you can manually enter it after turning off DHCP.		
Start	Distance per kWh >	IP Address		
	Firmware Information >	Subnet Mask		
Schedule To Charge	Change Login Password >	Gateway Address		
No Appointment >	Restore Factory Defaults	DNS Server		
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6.4.3 Setting the Dynamic Load Control

After you turn on the dynamic load control, the charger will balance the charging speed (or even pause charging) based on the obtained meter data and the set grid connection current to avoid tripping the main fuse. When the actual current purchased is close to the set grid connection current, in order to avoid tripping, the charger will reduce the charging power till pause charging. The charger will restart automatically after the difference between the set grid connection current and the current purchased from the grid meets the starting conditions of the charger.

Step 1 Tap 💮 > **Dynamic Load Control** to enter the setting page.

Step 2 Enable or disable **Dynamic Load Control** and set **Grid connection** value based on actual needs.



6.4.4 Setting the Minimum Charging Power

When the energy of the PV or PV + battery is insufficient, the charger can get support from the grid or the battery to maintain the desired power output if the Ensure Minimun Charging Power is turn on. The function is only available under the PV Priority or PV + Battery modes.

Step 1 Tap 💮 to enter the setting page.

Step 2 Enable or disable Ensure Minimum Charging Power based on actual needs.



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6.4.5 Setting the Purchase Power Limit

Step 1 Tap \bigcirc > **Peak Power Purchase Limit** to enter the setting page. Verify password: 1111 or goodwe2020.

Step 2 Set the purchased power limit value based on actual needs.

Step 3 Tap Save to complete the settings.



6.4.6 Managing the EV Card

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NOTICE

- RFID cards can be added and deleted, and each charger can bound up to 10 cards.
- After binding the card, tap the card to start charging the EV.

Step 1 Tap \bigcirc > **EV Card Management** to enter the setting page.

Step 2 Add or delete cards based on actual needs.

←] 57000HPA247L1111 ())	K More K EV Card Management
Vailable	⊞ Communication Settings → ⊕ Dynamic Load Control → Q41****080 →
	Ensure Minimum Charging Power During limited intervals of system regulations, the solar charging process may receive support from the grid or battery to secure minimum required power for charging
Plug And Charge	(1.4kW for 7kW module, 4.2kW for 11/22kW module). OFF: Discontinue charging if PV surplus is no longer available.
Charging Mode >	Peak Power Purchase Limit >
Image: Teast PV Priority PV+BAT	EV Card Management
Start	Distance per kWh >
	Firmware Information >
Schedule To Charge	Change Login Password > Binding Card
No Appointment >	Restore Factory Defaults > Up to 10 cards can be bound

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6.4.7 Setting the Distance per kWh

Set the unit or keep the default setting.

Step 1 Tap \bigcirc > **Distance per kWh** to enter the setting page.

Step 2 Set the unit to km or mile based on actual needs.

Step 3 Tap Save to complete the settings



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6.4.8 Checking Firmware Information/Upgrading Firmware Version

Check or upgrade the firmware version of the charger.

Step 1 Tap 💮 > **Firmware Version** to enter the setting page.

Step 2 (optional) Tap Check For Update to confirm whether the latest firmware version is available for updating. If so, follow the prompts to complete the update.



6.4.9 Changing the Password

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To ensure account security, you are advised to change the password periodically and keep the new password in mind.

Step 1 Tap \bigcirc > **Change Login Password** to set the password.

Step 2 Enter the current password and new password. Tap Save to complete the settings.

Step 3 Tap **Save** to complete the settings.

←] 570000004247.000	K More	Change Login Password Save
Available	品 Communication Settings >	Please enter current password Please enter the new password
	C Dynamic Load Control	Please enter new password again
The second secon	Ensure Minimum Charging Power During limited intervals of system regulations, the solar charging process may receive support from the grid or battery to maintain the desired output. ON: Continue charging with support from the grid and battery to secure minimum required power for charging	
Plug And Charge	(1.4kW for 7kW module, 4.2kW for 11/22kW module). OFF: Discontinue charging if PV surplus is no longer available.	
Charging Mode	Peak Power Purchase Limit >	
Fast PV Priority PV+BAT	EV Card Management >	
Start	Distance per kWh >	
	Firmware Information >	
Schedule To Charge	Change Login Password	*
No Appointment >	Restore Factory Defaults >	

6.4.10 Restoring Factory Defaults

Follow the steps below to restore the factory default settings of the charger.

Step 1 Tap -> Restore Factory Defaults.

Step 2 Restore factory settings as prompted.

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7 Troubleshooting

7.1 App Troubleshooting

No.	Fault	Cause	Solutions
1	Cannot install the app	 The smart phone operating system version is too low. The smart phone prevents installing the app. 	 Upgrade the phone operating system. Select Setting > Security > Install apps from external sources on your smart phone.
2	Communication failure	The communication distance between the smart phone and the inverter is out of range.	Diago the smort phone peor the
3	Fail to obtain the data during operation or the connection between the inverter and WiFi is interrupted.	The communication between the inverter and Solar-WiFi or bluetooth is interrupted.	inverter and reconnect the WiFi module.
4	The WiFi signal is not included in the app device list.	The app is not connected to the WiFi signal.	 Make sure that the WiFi module works normally. Refresh the device list. If the signal is still missing, restart the app.

7.2 Inverter Alarms

No.	Alarm	Causes	Solutions
1	SPI Fail	 The exception is caused by an external fault. Control board of the inverter cannot work properly. 	 Restart the inverter. If the inverter recovers, the problem is accidental and does not affect system working. If the problem persists, contact the after-sales service.
2	EEPROM R/W Fail	 The exception is caused by an external fault. Control board of the inverter cannot work properly. 	 Restart the inverter. If the inverter recovers, the problem is accidental and does not affect system working. If the problem persists, contact the after-sales service.
3	Fac Fail	 Wrong safety code. Unstable grid frequency. 	 Check the safety code. Check whether the AC frequency(Fac) is within the normal range. If the problem occurs occasionally, the utility grid may be abnormal temporarily.
4	AFCI Fault	 The PV string cables are in poor contact. The insulation between the PV string and ground is abnormal. 	 Check whether the PV cables are connected poorly. Contact after-sales service if the problem persists.If the problem persists, contact the after-sales service.
5	Night SPS Fault	The equipment cannot work properly.	 Restart the equipment. Upgrade the software version to solve the problem.
6	L-PE Fail	The live wire of the inverter output terminal is connected improperly.	 Check the wiring of the grid. If the problem persists, contact the after-sales service.
7	Relay Chk Fail	 The relay is abnormal or short-circuited. The control circuit is abnormal. The AC cable is connected improperly, like a virtual connection or short circuit. 	 Measure the voltage between N and PE cable on AC side. If the voltage is higher than 10V, it means the cables are connected improperly. Restart the equipment.

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07 Troubleshooting

No.	Alarm	Causes	Solutions
8	N-PE Fail	 The N and PE cables are connected improperly. The N wire of the inverter output terminal is connected improperly. 	 Make sure that the N and PE cables are connected correctly. Make sure that the output cable is connected correctly. If the problem persists, contact the after-sales service.
9	ARC Fail-HW	The power limit function is abnormal. (For Australia)	 Make sure that the grid and smart meter are connected correctly. If the problem persists, contact the after-sales service.
10	PV Reverse Fault	The PV strings are connected reversely.	 Make sure that the PV strings are connected correctly. If the problem persists, contact the after-sales service.
11	String OverCurr	The current of one PV string is too high.	Check the PV string connection.
12	LCD Comm Fail	The LCD connection is not firm.	Contact the after-sales service.
13	DCI High	DC component exceeds the allowed range.	 Restart the inverter. If the inverter recovers, the problem is accidental and does not affect system working. If the problem persists, contact the after-sales service.
14	Isolation Fail	 The PV panels are connected improperly. The DC cable is broken. The N and PE cables are connected improperly. The system is in a moist environment like rainy days, early morning or sunset. 	 Disconnect and connect the PV strings in turn to find the one caused error. Check whether the DC cable is broken. Measure the voltage between N and PE cable on AC side. If the voltage is higher than 10V, it means the cables are connected improperly. Make sure that the PV modules are grounded properly.
15	Vac Fail	 Wrong safety code. Unstable grid frequency. Improper AC cable specifications, like too long or too thin. The AC cable is connected improperly. 	 Check the safety code. Make sure that the voltage of each phase (Between L1&N, L2&N, L3&N) is within a normal range. Make sure the grid voltage is stable.

07 Troubleshooting

No.	Alarm	Causes	Solutions
16	EFan Fail	 The external fan is blocked. or connected improperly. 	Clear the external fan to remove the blocks.
17	PV Over Voltage	Excess PV modules are connected, and the open circuit voltage is higher than the max DC input voltage of the inverter.	 Measure whether the open circuit voltage of the PV string is higher than the max DC input voltage of the inverter. If the voltage is high, remove some panels connected to make sure that the open circuit voltage meets the requirement.
18	Overtemp.	 The ambient temperature is too high. The inverter is installed in a place with poor ventilation. 	 Cool down the ambient temperature. Make sure that the installation meets the environment requirements listed in the inverter user manual. Power off the inverter and restart 15 minutes later.
19	IFan Fail	 The internal fan is blocked. or connected improperly. 	 Restart the inverter. If the inverter recovers, the problem is accidental and does not affect system working. If the problem persists, contact the after-sales service.
20	DC Bus High	 The PV voltage is too high. Control board of the inverter cannot work properly. 	 Measure whether the open circuit voltage of the PV string is higher than the max DC input voltage of the inverter. Reduce the number of PV panels per string if the DC voltag is too high.
21	Ground I Fail	 The AC PE cable is not connected well. The system is in a moist environment like rainy days, early morning or sunset. 	Detect the voltage between the enclosure and the ground. The PE cable is connected improperly if any voltage detected.

No.	Alarm	Causes	Solutions
22	Utility Loss	 Utility grid power fails. The AC cable is disconnected. or the AC breaker is off. AC breaker fails. 	 Ensure that the utility grid is available. Measure the AC voltage using a multimeter. Check whether the breaker is broken. Check whether the AC cable is connected properly. Ensure that the grid is connected and AC breaker turned ON. Disconnect the AC output switch and DC input switch, then connect them 5 minutes later.
23	AC HCT Fail	 The exception is caused by an external fault. Control board of the inverter cannot work properly. 	 Restart the inverter. If the inverter recovers, the problem is accidental and does not affect system working. If the problem persists, contact the after-sales service.
24	Relay Dev Fail	 The exception is caused by an external fault. Control board of the inverter cannot work properly. 	 Restart the inverter. If the inverter recovers, the problem is accidental and does not affect system working. If the problem persists, contact the after-sales service.
25	GFCI Fail	 The exception is caused by an external fault. Control board of the inverter cannot work properly. 	 Restart the inverter. If the inverter recovers, the problem is accidental and does not affect system working. If the problem persists, contact the after-sales service.
26	DC SPD Fail	Lighting strike	 Improve the lightning protection facilities around the inverter Replace the inverter with a new one if it cannot work anymore.
27	DC Switch Fail	The DC trip switch is used exceeds the service life time.	Contact the after-sales service.
28	Ref 1.5V Fail	 The exception is caused by an external fault. Control board of the inverter cannot work properly. 	 Restart the inverter. If the inverter recovers, the problem is accidental and does not affect system working. If the problem persists, contact the after-sales service.

07 Troubleshooting

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No.	Alarm	Causes	Solutions
29	AC HCT Chk Fail	The sampling of the AC HCT is abnormal.	 Restart the inverter. If the inverter recovers, the problem is accidental and does not affect system working. If the problem persists, contact the after-sales service.
30	GFCI Chk Fail	The sampling of the GFCI HCT is abnormal.	 Restart the inverter. If the inverter recovers, the problem is accidental and does not affect system working. If the problem persists, contact the after-sales service.

7.3 Battery Alarms

No.	Alarm	Troubleshooting	
1	High battery temperature	The ambient temperature is too low to run the battery.	
2	Low battery temperature		
3	Battery cell voltage differences		
4	Battery over total voltage	If the problem persists, contact the after- sales service.	
5	Battery discharge overcurrent		
6	Battery charge over current		
7	Battery under SOC		
8	Battery under total voltageBattery over total voltage	persists, contact the after-sales service.	
9	Battery communication failure	Check the electrical connections by	
10	Battery output shortage	professionals.	
11	Battery SOC too high		
12	BMS module fault	If the problem persists, contact the after-	
13	BMS system fault		
14	BMS internal fault		
15	High battery charge temperature		
16	High battery discharge temperature	The battery is overloaded. You are recommended to reduce loads. If the problem persists, contact the after- sales service.	
17	Low battery charge temperature	The ambient temperature is too low to run	
18	Low battery discharge temperature	the battery.	

8 Appendix

8.1 Safety Country

No.	Safety Code	No.	Safety Code
Europe			
1	IT-CEI 0-21	43	CZ-C
2	IT-CEI 0-16	44	CZ-D
3	DE LV with PV	45	RO-A
4	DE LV without PV	46	RO-B
5	DE-MV	47	RO-D
6	ES-A	48	GB-G98
7	ES-B	49	GB-G99-A
8	ES-C	50	GB-G99-B
9	ES-D	51	GB-G99-C
10	ES-island	52	GB-G99-D
11	BE	53	NI-G98
12	FR	54	IE-16/25A
13	FR-island-50Hz	55	IE-72A
14	FR-island-60Hz	56	IE-ESB
15	PL-A	57	IE-EirGrid
16	PL-B	58	PT-D
17	PL-C	59	EE
18	PL-D	60	NO
19	NL-16/20A	61	FI-A
20	NL-A	62	FI-B
21	NL-B	63	FI-C
22	NL-C	64	FI-D
23	NL-D	65	UA-A1
24	SE-A	66	UA-A2
25	SE MV	67	EN 50549-1
26	SK-A	68	EN 50549-2
27	SK-B	69	DK-West-B-MVHV
28	SK-C	70	DK-East-B-MVHV
29	HU	71	DK-West-C-MVHV
30	СН	72	DK-East-C-MVHV
31	СҮ	73	DK-West-D-MVHV
32	GR	74	DK-East-D-MVHV
33	DK-West-A	75	FR-Reunion
34	DK-East-A	76	BE-LV(>30kVA)
35	DK-West-B	77	BE-HV
36	DK-East-B	78	CH-B
37	AT-A	79	NI-G99-A

38	AT-B	80	NI-G99-B	
39	BG	81	NI-G99-C	
40	CZ-A-09	82	NI-G99-D	
41	CZ-B1-09	83	IE-LV	
42	CZ-B2-09	84	IE-MV	
Global			-	
1	60Hz-Default	5	IEC 61727-50Hz	
2	50Hz-Default	6	IEC 61727-60Hz	
3	127Vac-60Hz-Default	7	Warehouse	
4	127Vac-50Hz-Default			
America				
1	Argentina	30	US-ISO-NE-480Vac	
2	US-208Vac	31	US-ISO-NE-208Vac-3P	
3	US-240Vac	32	US-ISO-NE-220Vac-3P	
4	Mexico-220Vac	33	US-ISO-NE-240Vac-3P	
5	Mexico-440Vac	34	PR-208Vac	
6	US-480Vac	35	PR-240Vac	
7	US-208Vac-3P	36	PR-480 Vac	
8	US-220Vac-3P	37	PR-208Vac-3P	
9	US-240Vac-3P	38	PR-220Vac-3P	
10	US-CA-208Vac	39	PR-240Vac-3P	
11	US-CA-240Vac	40	Cayman	
12	US-CA-480Vac	41	Brazil-220Vac	
13	US-CA-208Vac-3P	42	Brazil-208Vac	
14	US-CA-220Vac-3P	43	Brazil-230Vac	
15	US-CA-240Vac-3P	44	Brazil-240Vac	
16	US-HI-208Vac	45	Brazil-254Vac	
17	US-HI-240Vac	46	Brazil-127Vac	
18	US-HI-480Vac	47	Brazil-ONS	
19	US-HI-208Vac-3P	48	Barbados	
20	US-HI-220Vac-3P	49	Chile-BT	
21	US-HI-240Vac-3P	50	Chile-MT	
22	US-Kauai-208Vac	51	Colombia	
23	US-Kauai-240Vac	52	Colombia<0.25MW 1P	
24	US-Kauai-480Vac	53	Colombia<0.25MW 3P	
25	US-Kauai-208Vac-3P	54	IEEE 1547-208Vac	
26	US-Kauai-220Vac-3P	55	IEEE 1547-20Vac	
27	US-Kauai-240Vac-3P	56	IEEE 1547-240Vac	
28	US-ISO-NE-208Vac	57	IEEE 1547-230/400Vac	
29	US-ISO-NE-240Vac			
Oceania				
1	Australia-A	4	Newzealand	

2	Australia-B 5 Newzealand:2015		Newzealand:2015	
3	Australia-C	6	NZ-GreenGrid	
Asia				
1	China-A	25	JP-420Vac-50Hz	
2	China-B	26	JP-420Vac-60Hz	
3	China-Higher	27	JP-480Vac-50Hz	
4	China-Highest	28	JP-480Vac-60Hz	
5	China-Utility	29	Sri Lanka	
6	China-242-S	30	Singapore	
7	China-242-H	31	Israel-OG	
8	China PCS	32	Israel-LV	
9	Taiwan	33	Israel-MV	
10	Hong Kong	34 Israel-HV		
11	China-242-D	35	Vietnam	
12	Thailand-MEA	36	Malaysia-LV	
13	Thailand-PEA	37	Malaysia-MV	
14	Mauritius	38	DEWA-LV	
15	Korea	39	DEWA-MV	
16	India	40	Saudi Arabia	
17	India-CEA	41	JP-690Vac-50Hz	
18	Pakistan	42	JP-690Vac-60Hz	
19	Philippines	43	Srilanka	
20	Philippines-127Vac	44	IEC 61727-127Vac-50Hz	
21	JP-50Hz	45	IEC 61727-127Vac-60Hz	
22	JP-60Hz	46	JP-550Vac-50Hz	
23	JP-440Vac-50Hz	47	JP-550Vac-60Hz	
24	JP-440Vac-60Hz	48	India-Higher	
Africa				
1	South Africa-LV	4	Ghana	
2	South Africa-B-MV	5	Ghana-HV	
3	South Africa-C-MV			

8.2 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
	Voltage	207V	220V	240V	258V
Australia A	Inverter reactive power level (Q) % of Srated	44 % supplying	0%	0%	60 % absorbing
	Voltage	205V	220V	235V	255V
Australia B	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
Now	Voltage	207V	220V	235 V	244 V
Zealand	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
	Voltage	253V	260V
Australia A	Inverter maximum active power output level (P) % of S _{rated}	100%	20%
	Voltage	250V	260V
Australia B	Inverter maximum active power output level (P) % of S _{rated}	100%	20%
	Voltage	253V	260V
Australia C	Inverter maximum active power output level (P) % of S _{rated}	100%	20%
Now	Voltage	242 V	250V
Zealand	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



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