SOLINTEG MONITORING INTRODUCTION

Based on Monitoring version V3.2.0

www.solinteg.com
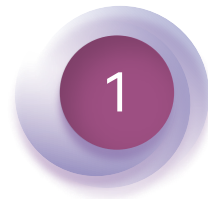
2023.8.1

INTEGRATE SOLAR INTELLIGENTLY

SOLINTEG
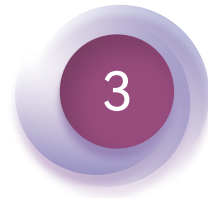
01 Monitoring Introduction

Solinteg Monitoring Solutions

Solinteg-Cloud

Solinteg Cloud is Solinteg´s self-developed official monitoring platform for end-users and distributors to monitor and manage their devices and plants. It features rich functions such as 24-hour load monitoring and devices and plants management, remote configuration and upgrading, organization management, alarms information, etc.

WWW.SOLINTEG-CLOUD.COM

Solinteg-App

Solinteg App is the portable version of the Sointeg cloud, allowing people to install it on their phones for monitoring and management of their devices and plants anytime, anywhere.
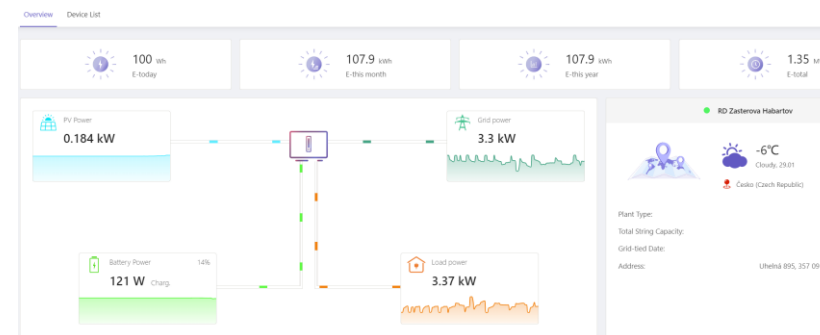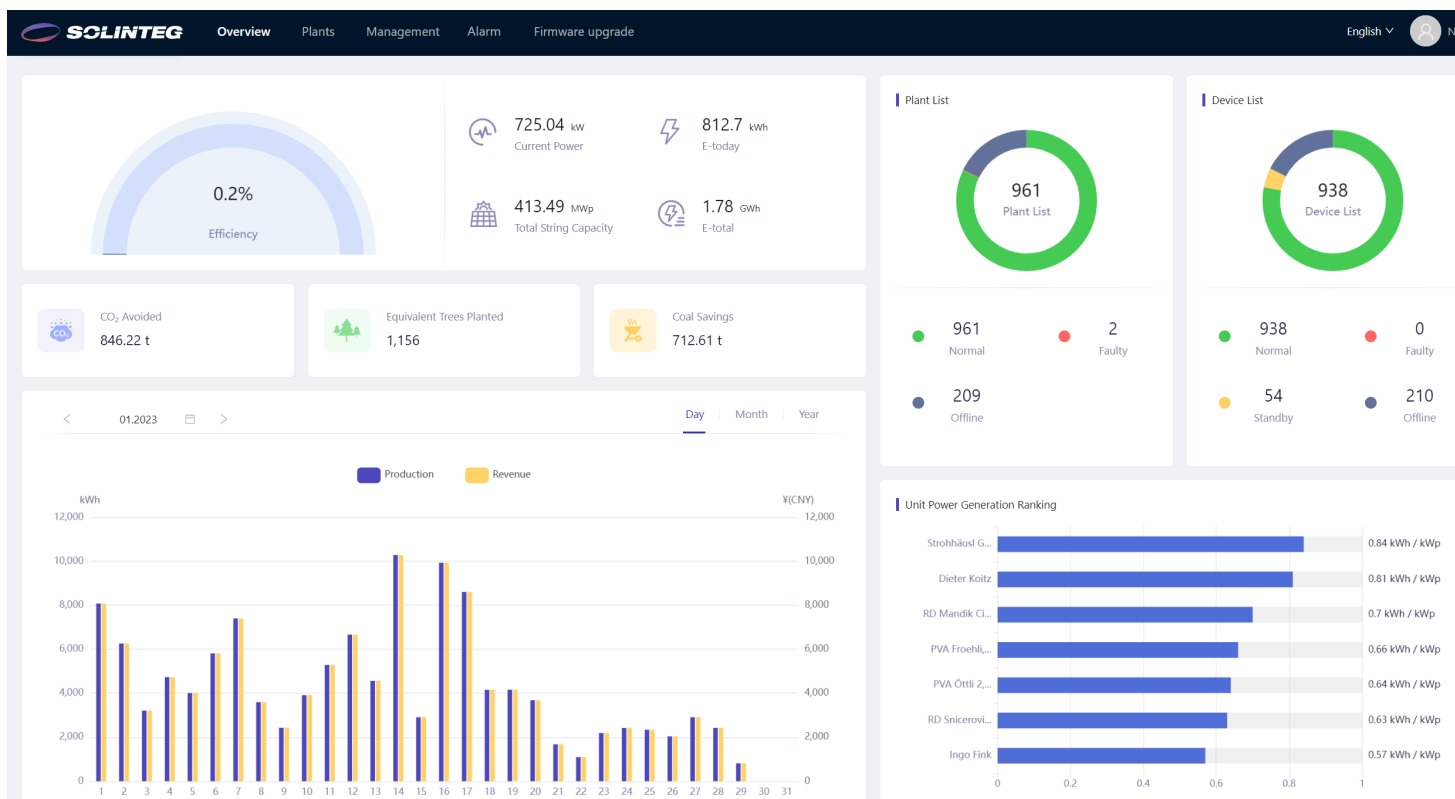
SolintegSet-App

SolintegSet App is designed for quick configuration of Solinteg **hybrid** inverters, offering features such as safety code, battery brand and type, work mode and off-grid application settings, etc.

Solinteg Monitoring Interfaces At A Glance

Solinteg Monitoring Features

24 Hours
Load monitoring

Dashboard
Big screen

Download Center

WiFi
Configuration

Remote Upgrade

CT & Meter
Detection

Parameter Report
Checking & Exporting

Warning
Reminder and solution

Vivid Energy Flow

Organization Management

Parameter Configuration

Smart Load Management

Plant & Device
Level monitoring and management

Solinteg Cloud Operation

02

Solinteg Cloud Operation Account Creation

Monitoring Platform Target Users

Organization Users

Organization users mean company users such as distributor or installer who doesn't use the device directly but sell or install it to others. It's usually an integral team of many roles. The organization account only can be created by its parent organization and could have many roles in an account.

Owners

Owners mean the person or the company who own the power plant and device for self-using and not for sale. Owner account can be registered by itself or created by the organization account.

Solinteg Technicians

Solinteg technician account is allowed to monitor and manage all the sub-level accounts, plants, and devices from organizations and owners for convenient O&M purposes.

SOLINTEG ACADEMY

Account Registration-For Owners

Two ways of acquisition of owner account

Method 1

- Access https://www.solinteg-cloud.com/ for new account registration.

- Click "Create an account".

- Input a working properly email address and your name.

- Click the "Send" button behind the verification code.

- Input the verification code received in your registered email.

- Set your own password according to the password requirements.

- Tick the box in front of the "Terms of Use".

- Click the "Owner Registration" button.

🔒 solinteg-cloud.com 🅰 ↻ → New account? Create an account

Email

guoxm2006@sohu.com

First name   Surname

claire   guo

Verification code

515351   **Send**

Password

••••••••   ⌀

Confirm Password

••••••••   ⌀

◉ I have read and accepted the Terms of Use.

• If you need to register an organization account, please contact your device supplier.

Owner Registration

SOLINTEG ACADEMY

Account Configuration-For Owners

Method 1

- The system will take you to the new page "System Settings" after the registration succeeded.

- Set the "Timezone" of your location by click the down arrow or fuzzy search.

- Input the electricity price according to the feed-in-tariff policy or local electricity price.

- Set the electricity price currency unit.

- Select your preferred time format from the list.

- Click the "Next" button.

- Then you will go to the "Plants" page.

System Settings

Timezone

Electricity Price Setting   Currency

                                           ∨ / kWh

Time Format

System Settings

Timezone

Beijing(UTC+08:00)   ∨

Electricity Price Setting   Currency

0.6   ¥(CNY)   ∨ / kWh

Time Format

DD.MM.YYYY   ∨

Next

SOLINTEG ACADEMY

Account Creation-For Owners

Create owner account and power plant at one time

Method 2

- Sign in the distributor account.
- Move the cursor to "Management" and click "Plant Management".
- Click "Add Plant"
- Fill in the email of the owner of the power plant.
- Fill in the other blanks marked with asterisks such as plant name, plant type, and total string capacity
- Choose the related organization , and click "Next".

Management

Plant Management

Device Management

Organization Management

Device Log

⊞ Add Plant

Owner Email ⑦: Please enter the email address of the owning user

* Plant Name : Please input plant name

* Plant Type : Please select plant type ⌄

* Related Organization : Solinteg Demo Account ⌄

SOLINTEG ACADEMY

Next

Account Creation-For Owners

Fill in the "Location" information

- Go to the next page of the "Location" setting.
- Select the plant located country or region by clicking the down arrow.
- Select the time zone of the plant location.
- Click the "Selection" button and a map will pop up, looking for the address on the map and double-click it. Or search the location by entering keywords in the search box.
- Click the "Confirm" button.
- Click the "Next" button.

Account Creation-For Owners

Set "Electricity Price" information

- Set the electricity price according to the local subsidy policy or electricity price / Watt.
- Set the currency unit.
- Click the "Complete" button.
- An owner account with a plant inside is created successfully.

Add Device

- After created successfully, you can choose to add device or close the page
- If choose to add device, input the device name,SN,check code
- If you want to add new device, Click "Device management"– "Add Device"

Add power plant

Installation Info — Location — 3 Revenue setting

* Revenue setting: 1

* Currency Unit: ¥(CNY)

Back Complete

Add power plant

Created successfully

Add Devices Turn off

Add Devices

* SN: Please enter SN number

* Check Code: Please enter the checking code

* Device Name: Please eneter the device name

Add Now

Device Management → **+ Add Device**

Account Creation-For Organizations

The organization account only can be created by its parent organization

- Sign in the organization account.
- Move the cursor to "Management" and click "Organization Management".
- Click the "+" button.
- The sub-organization code is automatically generated by the system, if you don't like the code, refresh it by click button ⟳
- Fill in all the blanks marked with asterisks such as distributor company name, contact person, email, country, and address.
- Click the "OK" button.
- The registered email will receive a registration succeeded notice with account and password information.
- The new organization account will appear in your account.

Management   **Organization Management**

Company Name/Email/Organization C...   🔍   +

| Create Subordinate Organization | ✕ |

* Sub-Organization Code : DB551055 ⟳

* Company Name :

* Contact Person :

* Email :

* Country/Region : Select Country/Region ⌄

* Detailed Address :

Default password : SolarEnergy

Cancel   OK

Interface Introduction-Overview Of All Plants
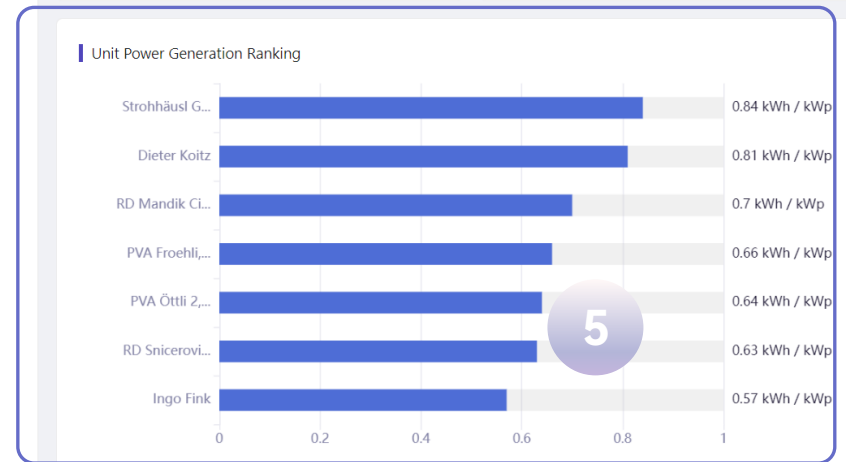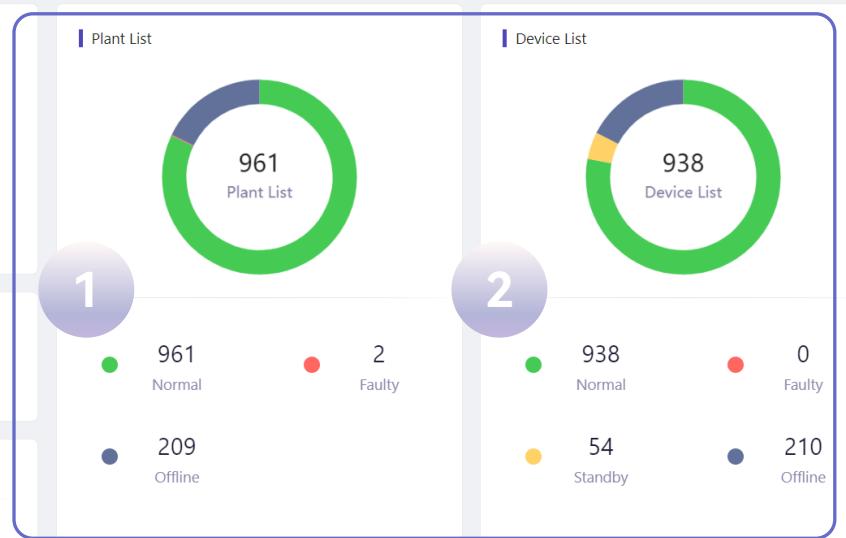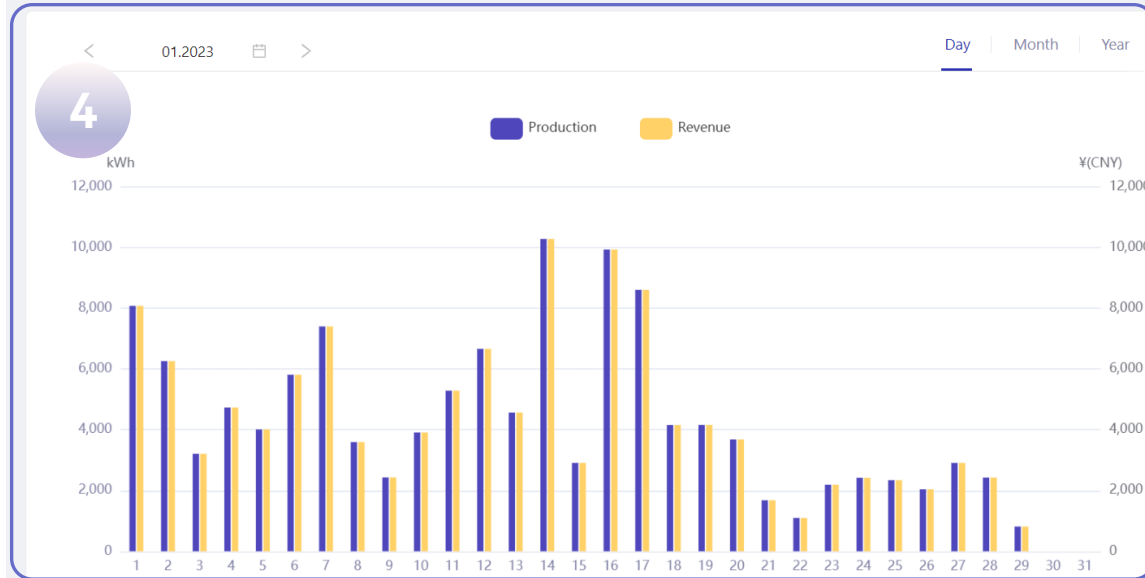
① All power plants are categorized and counted by the working status, the number in the circle is the total plant quantity.

② All devices in power plants are categorized and counted by the working status, the number in the circle is the total device quantity.

③ Power plant system performance by different counting periods.

④ PV generation +other generation column.

⑤ Plant generation ranking by unit performance.

⑥ Environmental performance

Interface Introduction-Plants

- All power plants your account manages will be listed on this page, and you can quickly sort them out by different dimensions.

Interface Introduction-Overview Of A Single Plant

⌂ Plants / **hybrid pv system**

Overview   Device List

1
- 1.5 kWh — E-today
- 1.01 MWh — E-this month
- 3.66 MWh — E-this year
- 8.34 MWh — E-total

2

PV Power
1.08 kW

Grid power
190 W

Battery Power   15%
115 W Charg.

Load power
777 W

3

● hybrid pv system

☀ **6°C**
Sunny, 23.09

📍 Deutschland (Germany)

Plant Type:	Energy Storage Plant
Total String Capacity:	12.75kWp
Grid-tied Date:	17.09.2022
Address:	V7Q7+5P Wolfertschwenden, Germany
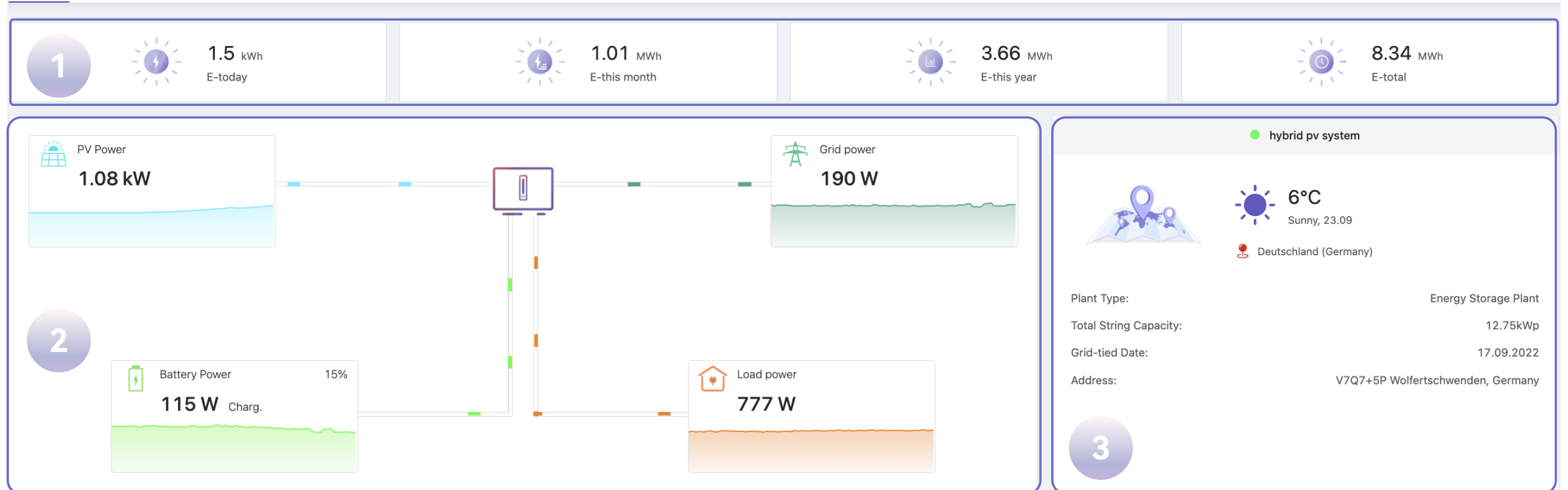
① Single plant energy generation is counted by day/month/year and lifetime.

② Energy flow animation, clearly show the system energy generation and consumption.

③ Plant basic introduction including address, type, weather, connection date and system capacity.

SOLINTEG ACADEMY

Interface Introduction-Overview Of A Single Plant

① Real-time power curve of each module in a single PV plant.

② The proportions of system production used for self-consumption and power export.

③ Your home appliances' energy consumption constitutions.

④ Load power = PV power + Battery power – Grid power
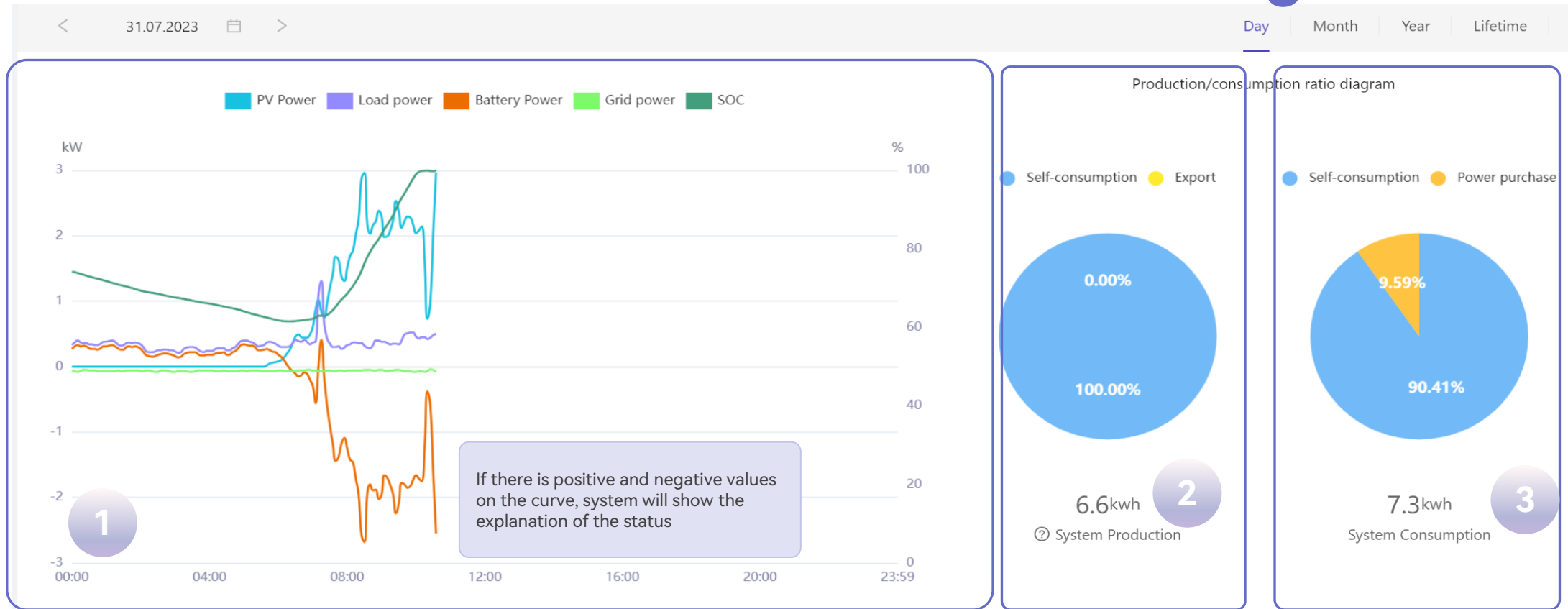
Interface Introduction-Device List/Device Details

Click the "Device List" to check all devices added to the power plant.

Click the "Device Name" to check the detailed info of all system modules.

Interface Introduction-Device Curve

← Real-time Info | **Historical info**

Click "Historical info" to view device info in the curve format.

Please select parameters ▾

PV Panel
- ☑ PV Power
- ☐ PV1 input current
- ☐ PV2 input current
- ☐ PV1 input voltage
- ☐ PV2 input voltage

Battery
- ☑ Battery Power
- ☐ Battery Current
- ☐ Battery Voltage
- ☐ SOC
- ☐ Min Cell Voltage
- ☐ Max Cell Voltage
- ☐ Charge current limit
- ☐ Discharge current limit

Inverter AC side
- ☐ AC power
- ☐ On-Grid L1 current
- ☐ On-Grid L2 current
- ☐ On-Grid L3 current

Clear | Confirm

More parameter curves can be generated by selecting them from the list.

< 30.01.2023 📅 >

kW
0.25
0.2

0.05
0

-0.05

-0.1

00:00   04:00   08:00   12:00   16:00   20:00   23:59

SOLINTEG ACADEMY

Solinteg Cloud Operation Management

Plant Management

Management

Plant Management

Device Management

Organization Management
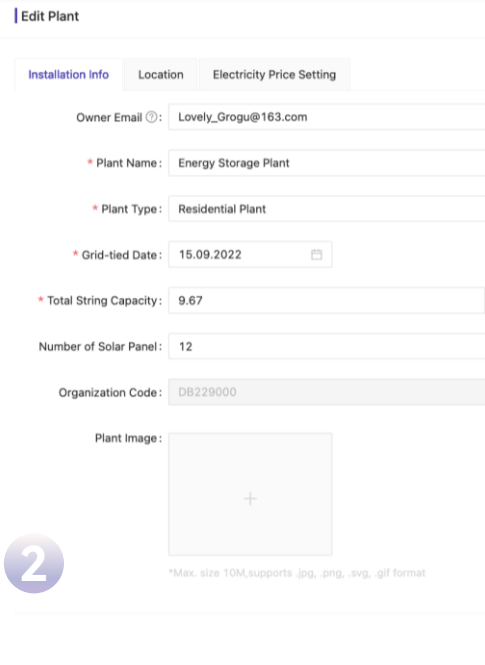
Device Log

Click "Management", "Plant Management", and you will see a list of plants in your account featured with some operation buttons.

SOLINTEG Overview Plants Management Alarm Firmware upgrade wyy

| Wyy first level account | Type | Plant Name | Search | Reset |

⊞ Add Plant

No.	Plant Name	Total String Capacity(k...	Address	Creation time	Owner Email	Plant Type	Plant Permission	Operate
1	Energy Storage ...	9.67	Nad Vrbím 537, 664 52 Sokolnice, Czechia	15.09.2022	Lovely_Grogu@163.com	Residential Plant	Self-created	↗ ✎ 🗑
2	hybrid pv system	12.75	V7Q7+5P Wolfertschwenden, Germany	2022-09-17T00:00	elena.lenu613@gmail.com	Energy Storage ...	Authorized by others	↗ ✎ 🗑
3	On-Grid PV Syst...	9.72	2201 Zambales - Pangasinan Rd, Iba, Zambales, Philippines	2022-09-19T00:00	Lovely_Grogu@163.com	Residential Plant	Self-created	↗ ✎ 🗑
4	Claire-test	5	江苏省无锡市梁溪区扬名街道中南路394号公交三场	2022-09-21T00:00	635507810@qq.com	Residential Plant	Self-created	↗ ✎ 🗑
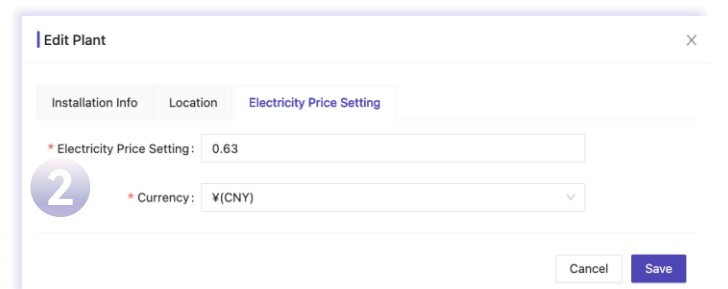
Total records: 4   〈 1 〉 10 / page ∨

| Edit Plant

Installation Info   Location   Electricity Price Setting

Owner Email ⓘ :   Lovely_Grogu@163.com
* Plant Name :   Energy Storage Plant
* Plant Type :   Residential Plant
* Grid-tied Date :   15.09.2022
* Total String Capacity: 9.67
Number of Solar Panel :   12
Organization Code :   DB229000
Plant Image :

+

*Max. size 10M,supports .jpg, .png, .svg, .gif format

②

| Edit Plant   ✕

Installation Info   **Location**   Electricity Price Setting

* Country/Region :   Česko (Czech Republic)
* Timezone :   Berlin(UTC+01:00)
* Location :   Nad Vrbím 537, 664 52 Sokolnice, Czechia   Selection
Detailed Address :   Please input detailed address

[map]

Cancel   Save

②

| Edit Plant   ✕

Installation Info   Location   **Electricity Price Setting**

* Electricity Price Setting :   0.63
* Currency :   ¥(CNY)

Cancel   Save

②

---

① Click to quickly enter the device management page.

② Click to edit the plant info such as installation info, location, and subsidy price.
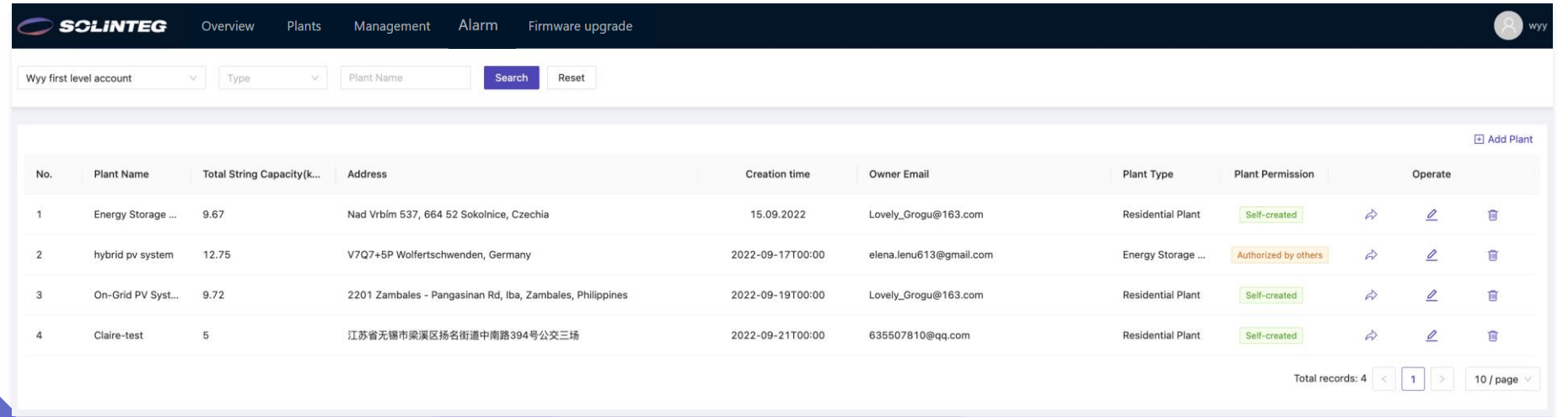
③ Click to delete the power plant.

SOLINTEG ACADEMY

Device Management

Plant Management

Device Management

Organization Management

Device Log ①

Method 1

Click "Management", "Device Management" to enter the device management page.

| | Wyy first level account ▽ | Plants ▽ | Model ▽ | Device Name/SN | Search | Reset |

⊞ Add Device   🗑 Batch delete

☐	Device Name	Model	Plant Name	SN	Check Code	Comm M...	Master Firm...	Slave Firmw...	Operate
☐	hybrid 12	MHT-12K-25	hybrid pv system	011210010273015C	418003	WIFI	V1.0.0.0	V16.93.1.0	✎ 🗑 ⋔
☐	#01 hybrid inverter	MHT-10K-25	Energy Storage Plant	A112100102130045	389987	WIFI	V1.0.0.0	V16.90.1.0	✎ 🗑 ⋔
☐	#02 on-grid	STS-8KTL	On-Grid PV System (Export Li...	A10210010340301A	102250	WIFI	V3.5.0.0	V27.24.1.0	✎ 🗑 ⋔

Method 2

							⊞ Add Plant
No.	Plant Name	Total String Capacity(k...	Address	Creation time	Owner Email	Plant Type	Plant Permission	Device Management Operate
1	Energy Storage ...	9.67	Nad Vrbím 537, 664 52 Sokolnice, Czechia	15.09.2022	Lovely_Grogu@163.com	Residential Plant	Self-created	⇗ ✎ 🗑

Click the " ⇗ " button behind the plant on the plant management page to enter the device management page.

⊞ Add Device   🗑 Batch delete

Operate

✎ 🗑 ⋔   Click to edit the device name.

✎ 🗑 ⋔   Click to delete the device from the plant (your history data cannot be restored if deleted the device).

✎ 🗑 ⋔   Click to configure device parameters such as grid, power control, protection, feature, and battery parameters.

👉   The parameter configuration must be done by a qualified and well-trained engineer with guidance from Solinteg.

SOLINTEG ACADEMY

Device Parameter Configuration

Left Panel

Parameter SettingsAcademy test ☁ ✕

- Grid Parameters
- Power Control
- Protection Parameters
- Feature Parameters
- Battery Parameters
- Load Management
- Meter checking
- Maintenance

Safety code settings: Czech(A1)

> Set according to local safety regulation requests.

Fault reconnection time: 60 s

Unbalanced Output: ⬤

> Default to open to enable phase unbalanced output on the on-grid side

Disclaimer | Set | Refresh | Cancel

Right Panel

Parameter SettingsAcademy test ☁ ✕

- Grid Parameters
- Power Control
- Protection Parameters
- Feature Parameters
- Battery Parameters
- Load Management
- Meter checking
- Maintenance

Export Limit: ⬤

> Enable the Export limit if needed

Feed in Grid: 0.0

> Set the percentage of power allow exported to the grid

Maximum output power: ⊘ Rated ⌄

> Set the max.output power according to your local requirment

Reactive Mode:⊘ OFF ⌄

OFF
The PF is fixed at +1.000.

PF
The reactive power can be regulated by the parameter PF (Power Factor).

Qt
The reactive power can be regulated by the parameter fixed Q(in Pn%).

Cosφ(P)

> OFF by default. Choose the mode if you want inverterter output reactive power

...h | Cancel

SOLINTEG ACADEMY

Device Parameter Confiauration

OV/UV settings

Level-1 UV protection threshold: | 195.50 | V

Level-1 UV protection time: | 4.90 | s

Level-1 OV protection threshold: | 264.50 | V

Level-1 OV protection time: | 4.90 | s

OF/UF settings

Level-1 UF protection threshold: | 47.50 | Hz

Level-1 UF protection time: | 1.00 | s

Level-1 OF protection threshold: | 51.50 | Hz

Grid Parameters
Power Control
Protection Parameters
Feature Parameters
Battery Parameters
Load Management
Meter checking
Maintenance

Disclaimer   Set

| Parameter SettingsAcademy test ☁   ✕

Grid Parameters

Power Control

Protection Parameters

Feature Parameters

Battery Parameters

Load Management

Meter checking

Maintenance

Multiple Inverter Role: | Independent

> If inverter in parallel system, change the role as "master" or "slave"

WorkMode Set: | **General Mode** | Economic Mode | UPS Mode | Off-grid Mode

Export Control:⊙ | Hard ⌄

On/Off-grid switch: ⬤

> Keep this function enabled, or inverter can't swith between on/off grid

MPPT parallel connection: ⚪

N-PE check:⊙ ⬤

> Click the workmode to change it

Disclaimer   Set   Refresh   Cancel

👉 The operation of protection parameters must be done on the guidance of Solinteg after-sales engineer.

SOLINTEG ACADEMY

Device Parameter Configuration

Left Panel

Grid Parameters

Power Control

Protection Parameters

Feature Parameters

Battery Parameters

Load Management

Meter checking

Maintenance

Battery_ID Set: WattLi_HV

Select compatible battery brands from the list

SOC on-grid protection: ⬤

On-grid End SOC: 20.0 %

Off-grid SOC protection: ⬤

Battery will stop discharge power when the battery level reaches the set value

Off-Grid End SOC: 20.0 %

Period Settings: Set

Disclaimer   Set   Refresh   Cancel

Right Panel

Parameter SettingsAcademy test

Grid Parameters

Power Control

Protection Parameters

Feature Parameters

Battery Parameters

Load Management

Meter checking

Maintenance

Load Management:? --

Disable

ManualMode

SmartMode

Disable by default, choose manegement mode, then set the control parameters

Disclaimer   Set   Refresh   Cancel

SOLINTEG ACADEMY

Device Parameter Configuration

Parameter SettingsAcademy test

- Grid Parameters
- Power Control
- Protection Parameters
- Feature Parameters
- Battery Parameters
- Load Management
- **Meter checking**
- Maintenance

Start testing

--   --   --

This function will check the phase sequence of smart meter and the direction of CT. Make sure the Inverter, Battery and smart meter normal before start this test.

Parameter SettingsAcademy test

- Grid Parameters
- Power Control
- Protection Parameters
- Feature Parameters
- Battery Parameters
- Load Management
- Meter checking
- **Maintenance**

Start

Stop

Restart

The normal working inverter won't react to this operation, and the waiting mode inverter will enter working status after clicking this button.

The normal working inverter will enter waiting mode when clicking this button.
You can maintain the battery or PV after powering off the inverter.

When the inverter works abnormally, clicking this button to restart the inverter sometimes can solve the problem.

SOLINTEG ACADEMY

Device Parameter Configuration-Owner Account

Remote parameter configuration privileges of the owner's account are relatively low,only can set export limit/work mode/battery parameters.
There is no export limit setting when the safety code is VDE4105/Austria/Switzerland

Organization Management

Management

Plant Management

Device Management

Organization Management

Device Log

Click "Management", "Organization Management" to enter organization management page to create accounts for your sub-level organizations or your internal team members.

Organization Account Creation

The method of creating organization account has been introduced on page 16, please go to page 16 for reference.

SOLINTEG | Overview | Plants | **Management**

Company Name/Email/Organization C...   🔍 +

Wyy first level account
   test wyy 0915 V1.6
   ABC SOLAR

Search the organization account by entering company name, email, and organization code.

Check all organization accounts that are managed by you by clicking the unfold button.

Company Info | Internal Account

Company Name	Wyy first level account
Contact Person	wyy
Contact Email	grogu_gi@163.com
Country/Region	中国大陆 (China mainland)
Address	xinwu part
Organization Code	DB229000
Creation time	15:12:42 01.09.2022

Company Info | Internal Account

[+2 Add Account]

No.	Username	Email	Role	Operate
1	wyy	grogu_gi@163.com	Super Administrator Me	✏ 🔄 🗑

Add Account ✕

* Username :   claire.guo

* Email :   mengmeng_cool@126.com

* Role :   O&M ▾

        Administrator

Default password :   O&M

        Visitor

Cancel   OK

Permissions of the role:
Administrator has the privilege of operating and managing all accounts, plants, and devices.
O&M can manage all plants, devices, and sub-level organizations.
Visitor can only view all plants and devices.

No.	Username	Email	Role	Operate
1	wyy	grogu_gi@163.com	Super Administrator Me	✏ 🔄 🗑
2	claire.guo	mengmeng_cool@126.com	O&M	✏ 🔄 🗑

Internal Account Creation

Click "Internal Account"
Click "Add Account"
Input the account info as the system requested and click the "OK" button.

SOLINTEG ACADEMY

Account Settings

wyy

wyy
grogu_gi@163.com
DB229000

Personal info

System setting

Log out

wyy
Super Administrator
📍 --

Click the "Portrait" on the right top corner and "Personal info" to check your account profile.

Basic Info   General Info   Company Info

👤 First name
--

✉ Email
grogu_gi@163.com

🔒 Password
••••••••

→ Go to system setting

Basic Info   General Info   Company Info

🌐 Timezone
Beijing

🎚 Parameter setting (password verification)
Off

⏱ Electricity Price Setting
0.76

💱 Currency
¥(CNY)   /kWh

🈲 Language
English

🗓 Time Format
HH:mm:ss dd.MM.yyyy

→ Go to system setting

Basic Info   General Info   Company Info

🏛 Company Name
Wyy first level account

👤 Contact Person
wyy

📧 Contact Email
grogu_gi@163.com

🌐 Country/Region
中国大陆 (China mainland)

📍 Address
xinwu part

🔀 Organization Code
DB229000

🔀 Superior Distributor Code
DB20ROOT

→ Go to system setting

Personal settings

General settings

Company settings

Dashboard settings

* Username
wyy

* First name
--

* Email
grogu_gi@163.com   Edit

* Password
                          Edit

Edit the personal info by clicking the personal settings.

* Timezone
Beijing(UTC+08:00)   ⌄

* Parameter setting (password verification)
Off   ⌄

* Electricity Price Setting
0.7600

* Currency
¥(CNY)   ⌄   /kW

Language
English

Edit the general info by clicking general settings

* Tim
DD.

* Company Name
Wyy first level account

Contact Person
wyy

Contact Email
grogu_gi@163.com

* Country/Region
中国大陆 (China mainland)   ⌄

* Address
xinwu part   Edit the company info by clicking the company settings

Organization Code
DB229000

Superior Distributor Code
DB20ROOT

SOLINTEG ACADEMY

Download Center

Move your cursor to the account icon, click the Download Center, system will go to the download part of Solinteg website.

Solinteg Cloud Operation Alarms

2.4

Alarm Setting

wyy

wyy
grogu_gi@163.com
DB229000

Personal info

System setting

Log out

Click the "Portrait" on the right top corner and "Personal info" to check your account profile.

Personal settings

General settings

Alarm settings

Company settings

* **Whether to push alarms**

Off ⌄

Alarm level   ☐ Fault ☐ Protection

Push method   ☐ Email Push ☐ APP Push

Email Push Language

English ⌄

* **Whether to push alarms**

Off ⌄

On

Off

Choose whether to receive the alarm information or not.

Alarm level   ☑ Fault ☑ Protection

The alarms are sorted into two levels, fault and protection. You can choose to receive one or both.

Push method   ☑ Email Push ☑ APP Push

Choose which way to receive the alarm information, in email or APP, or both.

Email Push Language

English ⌄

English

Español

Polski

Português

中文

Deutsch

Italiano

Čeština

Choose the language of your push information

SOLINTEG ACADEMY

Alarm Search

Plant Name	Device Name	SN	Alarm type	Start time	Alarm name	Alarm Status	Operate
Hybrid PV System	test device	8112200171030795	Protection	16:15:36 29/01/2023	BMS Comm Fault	Not repaired	
直连	office	A112200109930797	Protection	16:11:57 29/01/2023	BMS Comm Fault	Not repaired	
Hybrid PV System	test device	8112200171030795	Protection	08:48:32 29/01/2023	Mains Lost	Restored	

Categorize plants/devices by alarm type

Categorize plants/devices by alarm status

Categorize plants/devices by directly input the alarm name

Categorize plants by alarm start date and end date

Search a specific plant by plant name or serial number

- All alarm information of your plants the account manages will be listed on this page, and you can quickly sort them out by different dimensions.

Alarm Operate

Plant Name	Device Name	SN	Alarm type	Start time	Alarm name	Alarm Status	Operate
Elsner_Mnichovo Hradiste	Elsner_Mnichovo Hradiste	5112200151930148	Protection	14:33:33 29.01.2023	Mains Lost	Not repaired	

Operate

↩ Back

Plant Name: **Hybrid PV System** ↗

Device Name: **test device** ↗ — Alarm device basic information

SN: **8112200171030795**

Start time : 08:48:32 29/01/2023 — Alarm start time

Alarm type: Protection — Alarm level, protection or fault

Alarm name: Mains Lost — Alarm name description

Alarm Status: Restored — Restored or not repaired

Recovery time: 13:25:31 29/01/2023 — Alarm recovery time

Causal analysis:

Grid power outage, AC switch or circuit is disconnected. — Why alarms appear

Processing measures:

1. Check whether the mains supply is lost.
2. Check whether the AC cable wiring is correct. — How to check and settle the alarms

Click the "Operate" , check the alarm information details

SOLINTEG ACADEMY

Solinteg Cloud Operation Firmware Upgrade

Firmware Upgrade-Add

Start date → End date 📅   Operator   Search   Reset

Export   Add

Operator	Device Type	SN	Device Model	Upgrade method	Upgrade Version	Creation time	Upgrade det
grogu_gi@163.com	Hybrid Inverter	A11220010093009A	MHT-20K-40	Upgrade Now	V1.0.0.0-V12.28.2.0	16:32:36 12.06.2023	Succeed

Export   Add
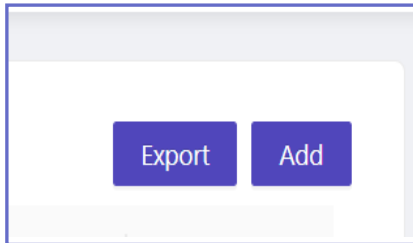
Click the "Add" , add devices to upgrade list

Firmware upgrade   ×

Select device: A11220010093009A ∨

Input the device SN or plant name to search for the device you want to upgrade

Current version: V1.0.0.0-V16.38.2.0

Latest version: V1.0.0.0-V16.42.2.0

System shows the current and latest version

Firmware Description:
Firmware I
1. Modify protection value.
2. Add Hard/Soft control function.
3. Optimize the operating status.
4. Optimize the fan detection logic.
5. Fix the known issue.

☐ Upgrade process may interrupt device runing, please confirm the user authorization has been obtained

Check the firmware decription, confirm if you continue to upgrade

Update

SOLINTEG ACADEMY

Firmware Upgrade-Export

	Overview	Plants	Management	Alarm	**Firmware upgrade**

Start date	→	End date		Operator		Search	Reset

Export   Add

Operator	Device Type	Firmware Type	Upgrade method	Upgrade Version	Creation time	Upgrade details	Operate
meng.ni@solinteg.com	Inverter	ARM	Upgrade Now	V1.0.0.0-V6.23.1.0	11:21:11 07.12.2022	Succeed	Detail
meng.ni@solinteg.com	Inverter	DSP	Upgrade Now	V1.0.0.0-V2.23.1.0	11:05:46 07.12.2022	Succeed	Detail

Export   Add

Click the "Export" , download the upgrade history list

	A	B	C	D	E	F	G
	Operator	Device Type	Firmware Type	Upgrade Method	Upgrade Version	Creation Time	SN
	meng.ni@solinteg.com	Inverter	DSP	Upgrade Now	V1.0.0.0-V2.23.1.0	11:05:45 07.12.2022	A112200171030153
	meng.ni@solinteg.com	Inverter	DSP	Upgrade Now	V1.0.0.0-V2.23.1.0	11:05:46 07.12.2022	A112200171030153
	meng.ni@solinteg.com	Inverter	DSP	Upgrade Now	V1.0.0.0-V2.23.1.0	11:05:46 07.12.2022	A112200171030153
	meng.ni@solinteg.com	Inverter	ARM	Upgrade Now	V1.0.0.0-V6.23.1.0	11:21:11 07.12.2022	A112200171030153

H	I	J	K	L	M	N
Device Name	Plant Related	Start time	End time	Pre-upgrade version	Upgraded version	Upgrade result
	固件测试	11:05:45 07.12.2022	11:07:46 07.12.2022	V1.0.0.0-V2.21.1.0	V1.0.0.0-V2.23.1.0	Upgrade failed
	固件测试	11:05:46 07.12.2022	11:07:34 07.12.2022	V1.0.0.0-V2.21.1.0	V1.0.0.0-V2.23.1.0	Upgrade failed
	固件测试	11:05:46 07.12.2022	11:09:22 07.12.2022	V1.0.0.0-V2.21.1.0	V1.0.0.0-V2.23.1.0	Upgraded successfully
	固件测试	11:21:11 07.12.2022	11:58:56 07.12.2022	V1.0.0.0-V2.23.1.0	V1.0.0.0-V6.23.1.0	Upgraded successfully

SOLINTEG
ACADEMY

Solinteg APP Operation

03

Solinteg App

Introduction

Solinteg App is the portable version of Solinteg cloud monitoring allowing both organization users and owners to monitor and manage their plants and devices at any time anywhere.

Solinteg App operation steps are similar to the Solinteg-cloud, and here we won't present the detailed steps about account registration, plant creation, and plant management.
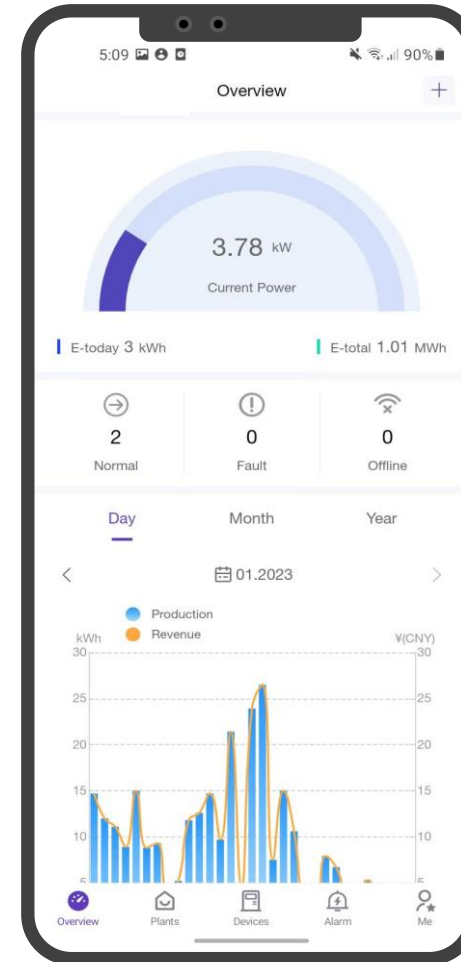
Overview Page
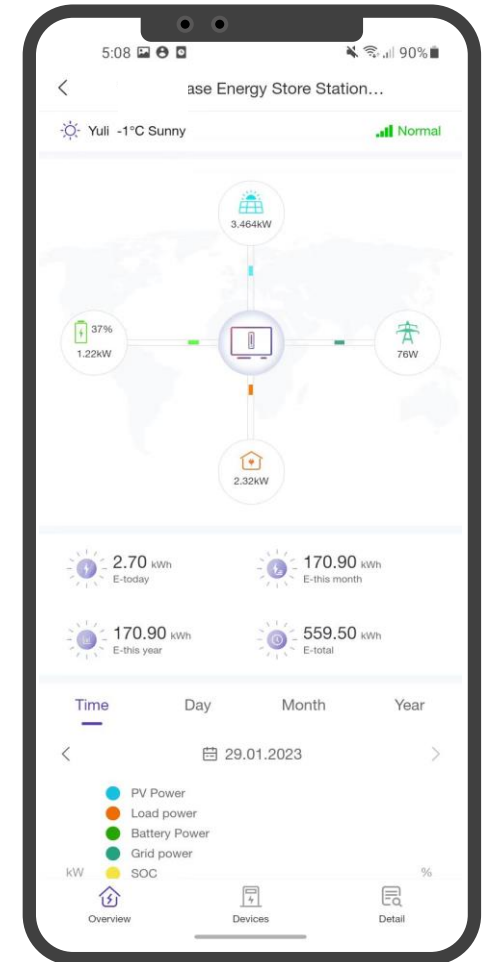
Device information Page

SolintegSet Operation

Connection & Log In
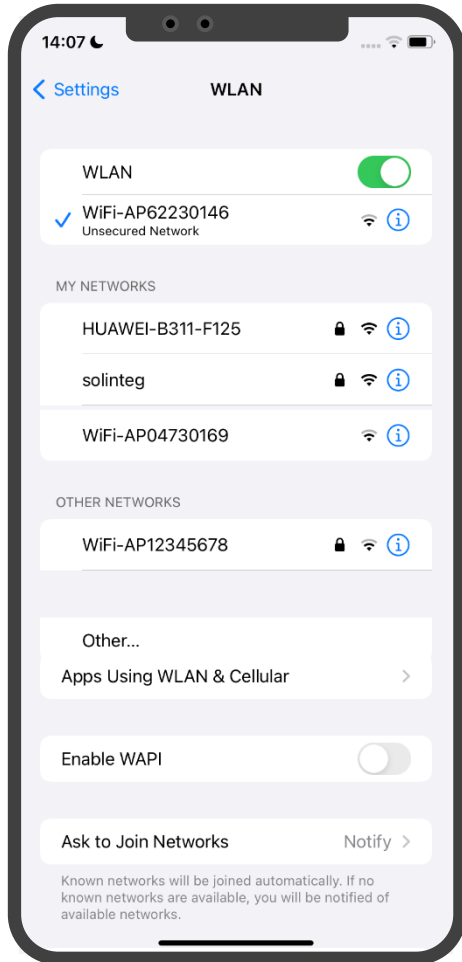
Power on the inverter and search for the WiFi released by the inverter
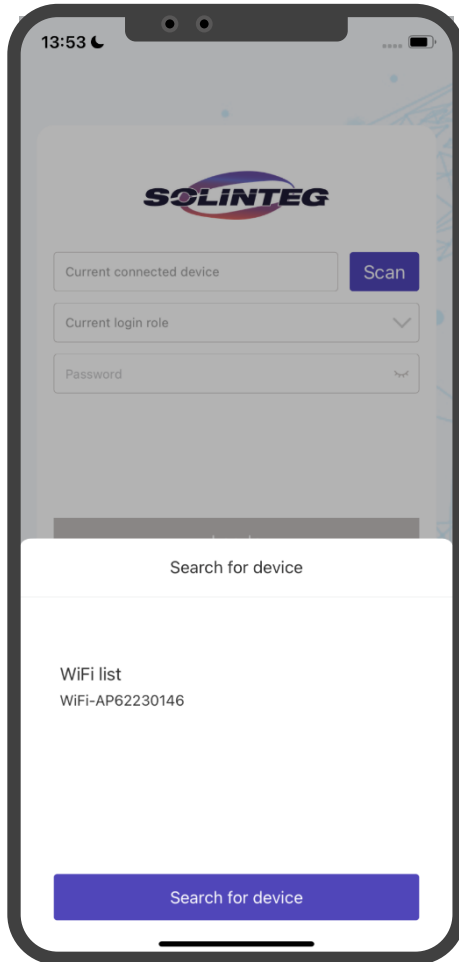
Open the App and click "Scan", you will see inverter WiFi appeared on the list
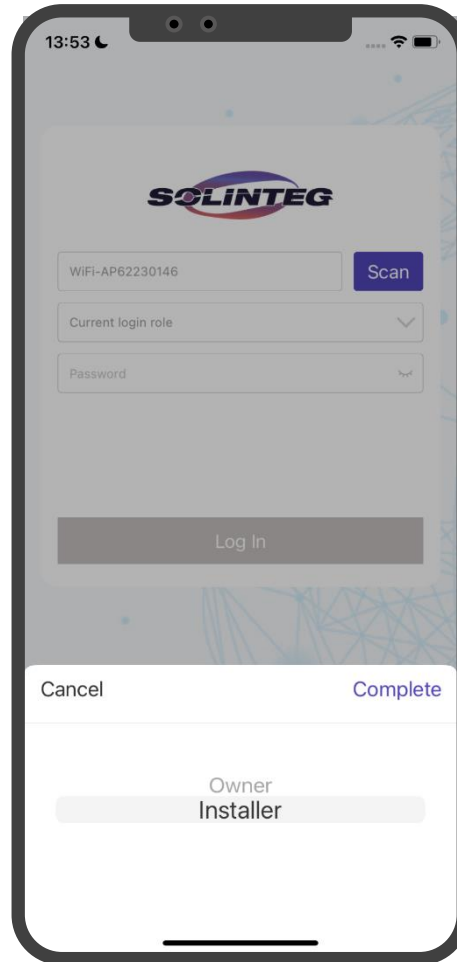
Select a role to enter the configuration page
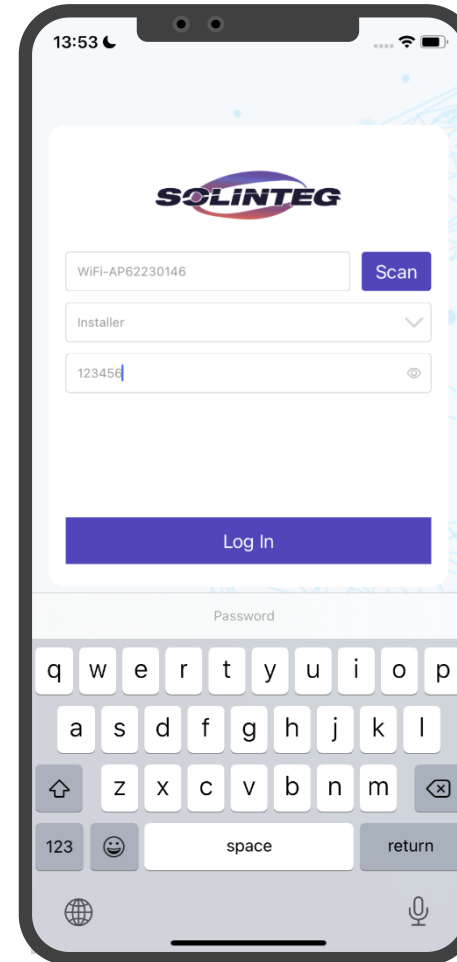
Input password（contact Solinteg service team for the password）, Click "Log In"
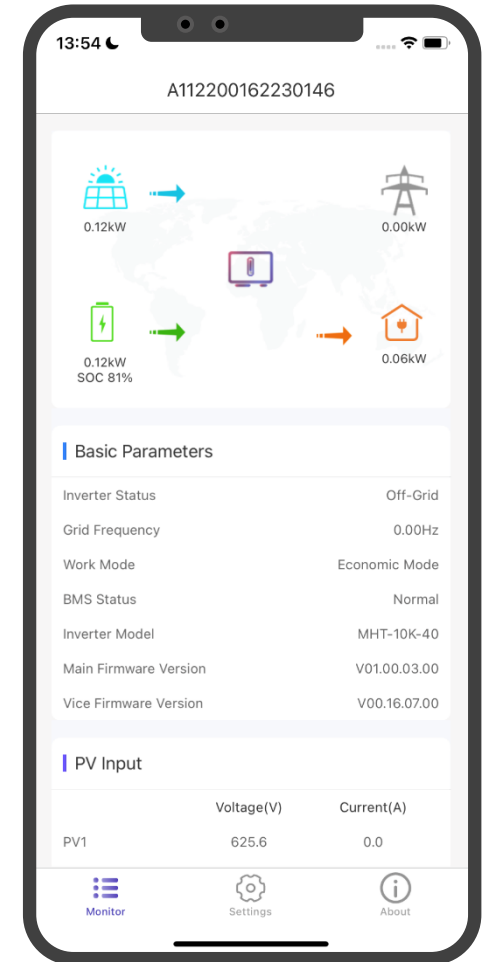
Enter the homepage of the inverter, you can see the basic parameters of all modules in the system

Settings & Hybrid Configuration

Screen 1 — Settings

Settings	
Grid Protection Parameters	>
Hybrid Inverter Configuration	>

Monitor   Settings   About

Screen 2 — Grid Protection Parameters

Reconnection time	0 S
10-min OV switch	(on)
10-min OV threshold	253.0 V

OV and UV Settings

Level-1 UV protection threshold	184.0 V
Level-1 UV protection time	1.60 S
Level-1 OV protection threshold	276.0 V
Level-1 OV protection time	1.60 S

OF and UF Settings

Level-1 UF protection threshold	48.00 Hz
Level-1 UF protection time	1.00 S
Level-1 OF protection threshold	52.00 Hz
Level-1 OF protection time	1.00 S

Confirm

Screen 3 — Hybrid Inverter Configuration

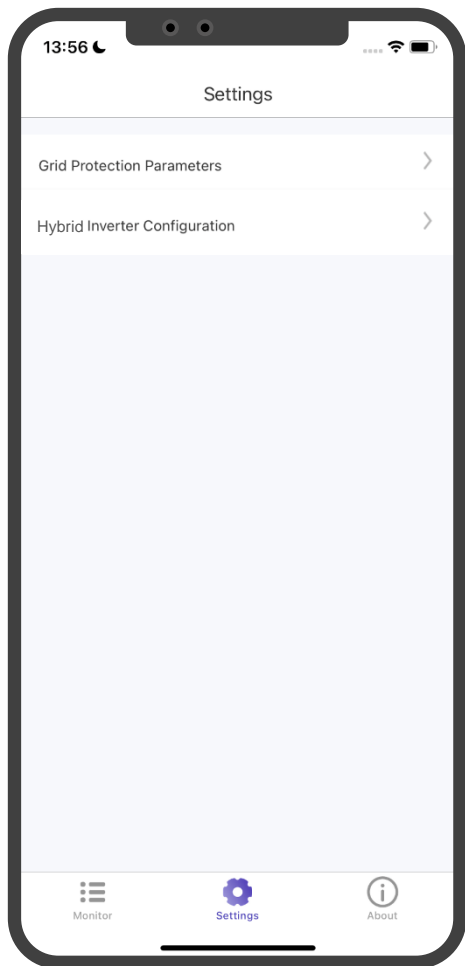Battery Model — Sefety Code — Work Mode

Select battery model

- EBS-5150
- EMS_HV
- WattLi_HV
- Aobo_ET
- Dyness
- Pylon_HV ✓

Next

Screen 4 — Hybrid Inverter Configuration

Battery Model — Sefety Code — Work Mode

Select safety code

- 50Hz Default ✓
- 60Hz Default
- VDE4105
- AS4777.2(AU)
- AS4777.2(NZ)
- EN50549
- Vietnam
- IEC61727(50Hz)
- IEC61727(60Hz)
- Italy
- Belgium
- South Africa

Back   Next

Screen 5 — Hybrid Inverter Configuration

Battery Model — Sefety Code — Work Mode

General Mode	UPS Mode
To set	To set

Economic Mode	Off-grid Mode
To set	To set

Back   Confirm

Click "Settings", two menus of grid protection parameters and hybrid inverter configuration will appear.
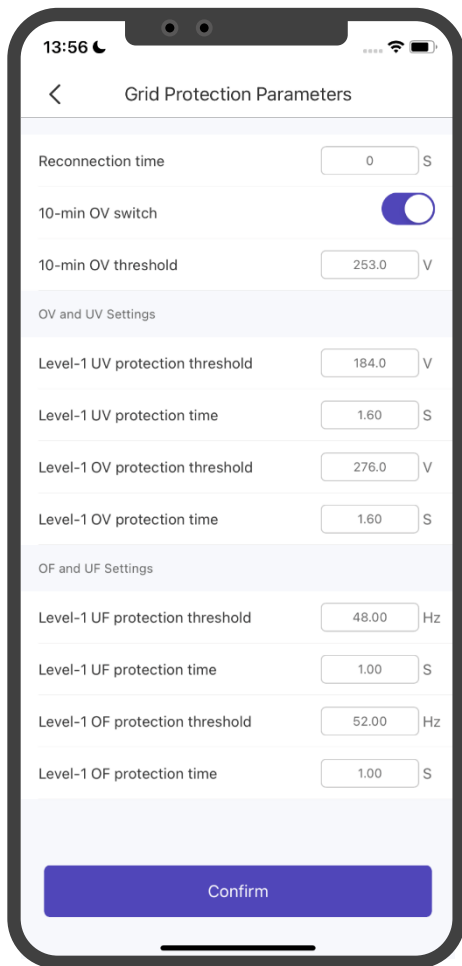
Click "Grid Protection Parameters" to modify the inverter parameters. Modify under the instruction of professionals.
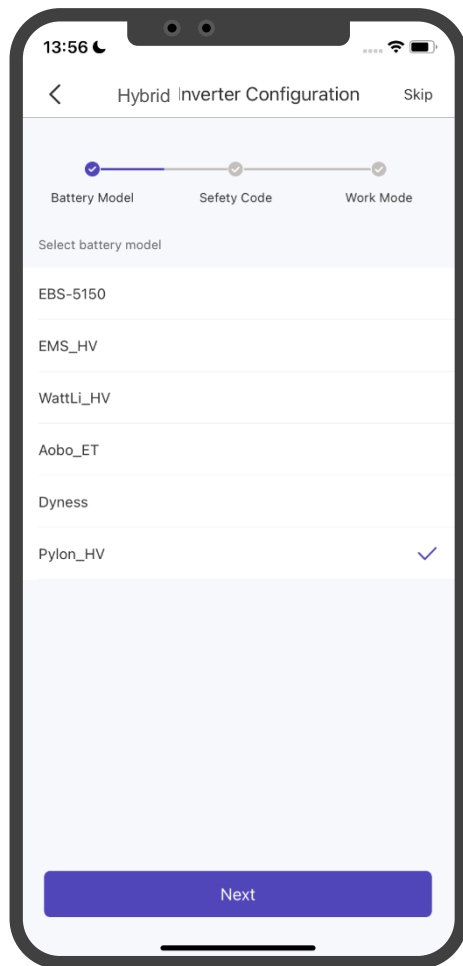
Select the battery brand that you are using from the list, and click "Next"
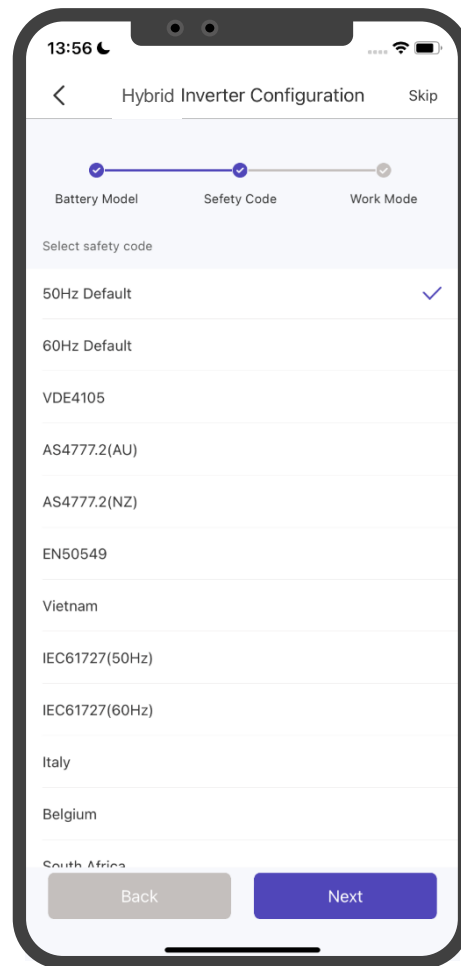
Select safety code according to the inverter installation place, and click "Next"

Select a work mode that you preferred, and set the detailed parameters according to requirements.

SOLINTEG ACADEMY

Definition Of Four Work Modes

General Mode

PV power is sufficient, power from the PV will firstly supply loads, then excess power charge battery, and any surplus power will be fed to the grid.

PV power is insufficient to satisfy loads, the battery will discharge power to fill the power gap, and the grid will join in if it's still not enough.
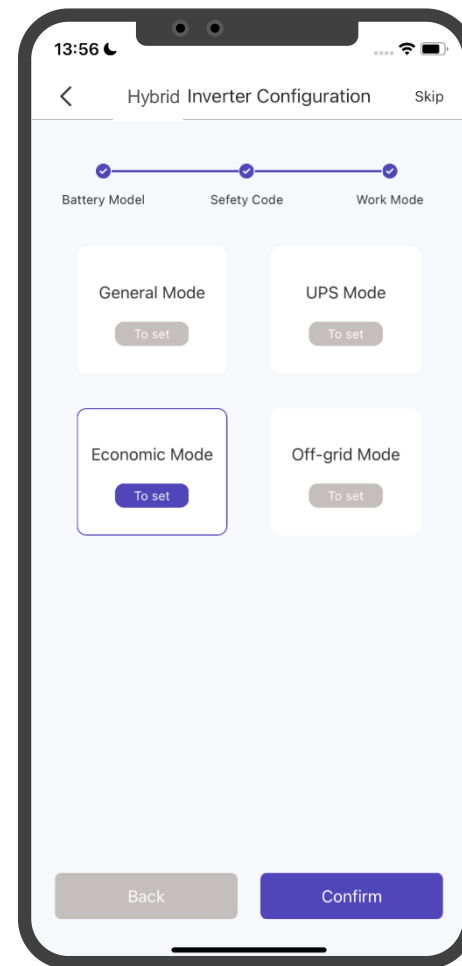
UPS Mode

Power grid is connected, power from PV or grid will firstly charge the battery until it's full, and loads will be supplied by the grid during charging period. Battery will not discharge power when the grid is connected.

Power grid fails, and PV power is insufficient to meet the loads' consumption, the battery will discharge power to supply loads connected to the back-up port.

Economic Mode

This mode is typically used in areas where with peak and valley electricity prices to assist clients in optimizing their energy costs. By configuring the App, customers can charge power from the grid during valley hours.

Customers can also discharge power during peak hours by configuring the App, and the battery will discharge electricity to supply loads or feed to the grid in this instance.

Off-grid Mode

In the purely off-grid mode, power from PV will supply the back-up loads first and then charge the battery if there's surplus power.

When the power from PV isn't enough, the battery will discharge to supply back-up loads together with PV.

Note: If there's no grid connection when configuring the hybrid system, please set the work mode to "Off-grid" to enable the power output in back-up port and switch to other modes when grid comes back.

SOLINTEG ACADEMY

General Mode Configuration
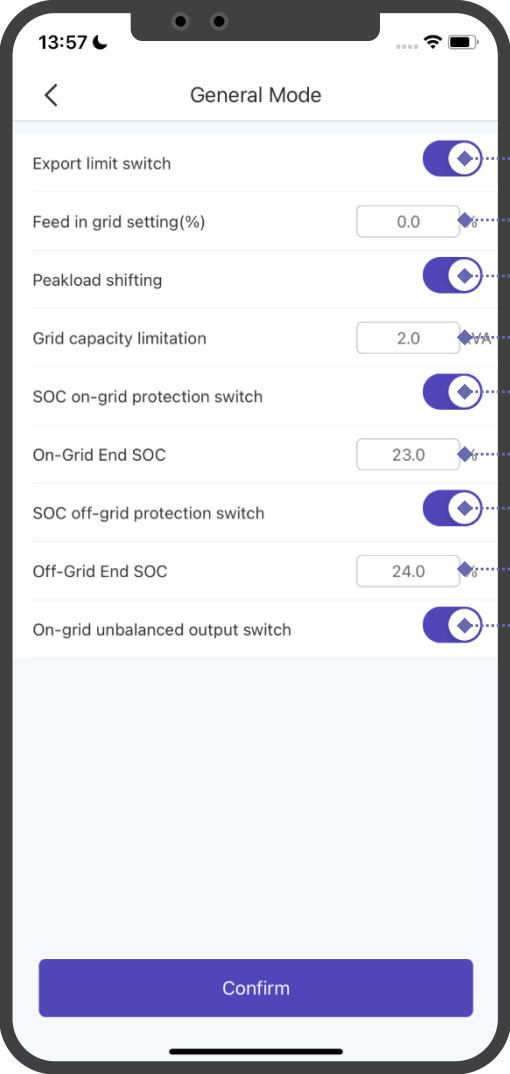
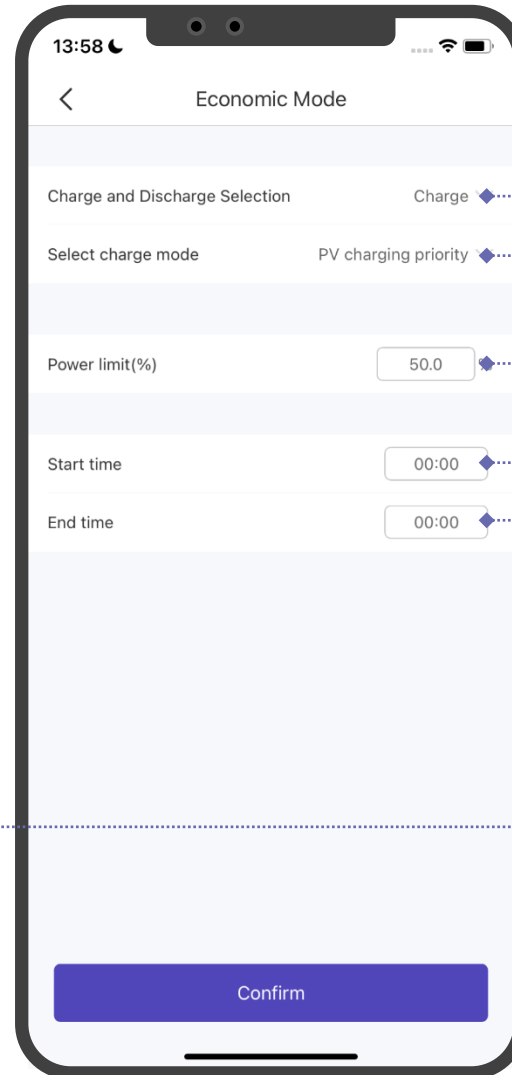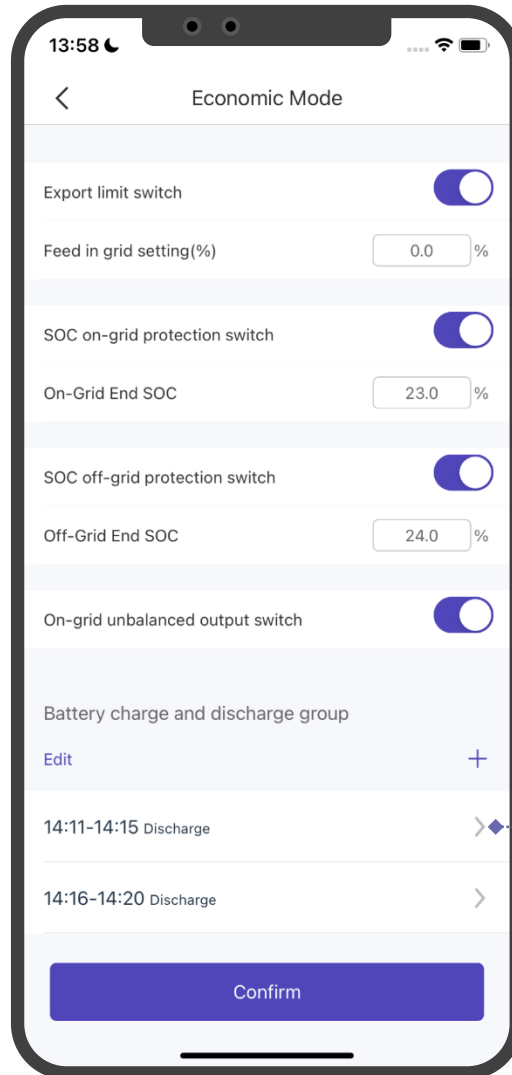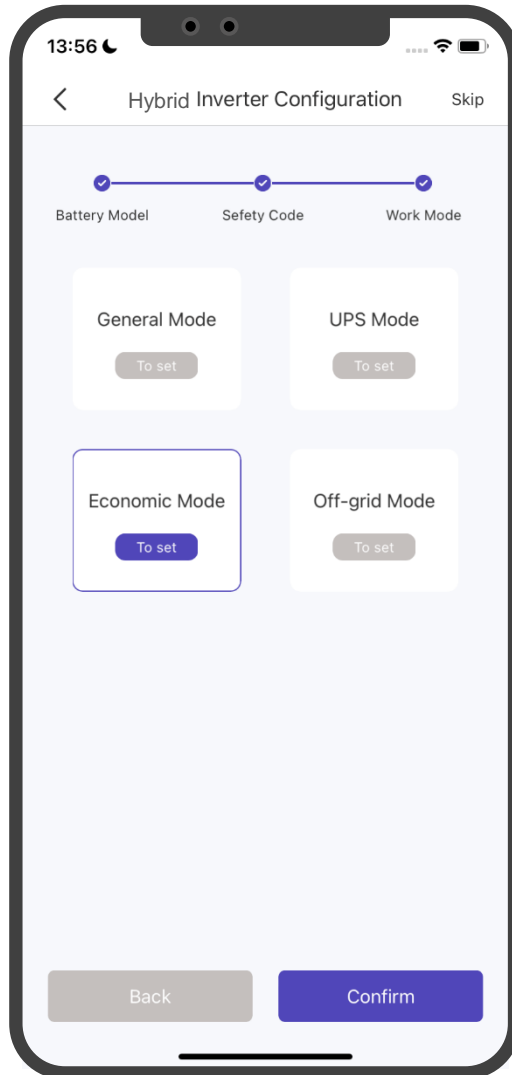| Setting	Value/Switch	Description
Export limit switch	ON	Export limit function ON/OFF switch
Feed in grid setting(%)	0.0	Set the percentage of power allow exported to the grid
Peakload shifting	ON	Peak load shifting function ON/OFF switch
Grid capacity limitation	2.0	Set the max power that signed with the grid
SOC on-grid protection switch	ON	On-grid SOC ON/OFF switch
On-Grid End SOC	23.0	On-grid SOC percentage setting. When the battery level drops to this value, battery will stop discharge.
SOC off-grid protection switch	ON	Off-grid SOC ON/OFF switch
Off-Grid End SOC	24.0	Off-grid SOC percentage setting. When the battery level drops to this value, battery will stop discharge.
On-grid unbalanced output switch	ON	Three-phase unbalanced output ON/OFF switch. Turn on the switch to enable on-grid unbalanced output.

Confirm

Economic Mode Configuration

Phone 1 — Hybrid Inverter Configuration:

13:56

< Hybrid Inverter Configuration Skip

Battery Model — Sefety Code — Work Mode

General Mode
To set

UPS Mode
To set

Economic Mode
To set

Off-grid Mode
To set

Back   Confirm

Phone 2 — Economic Mode:

13:58

< Economic Mode

Export limit switch ⬤

Feed in grid setting(%)   0.0 %

SOC on-grid protection switch ⬤

On-Grid End SOC   23.0 %

SOC off-grid protection switch ⬤

Off-Grid End SOC   24.0 %

On-grid unbalanced output switch ⬤

Battery charge and discharge group

Edit   +

14:11-14:15 Discharge >

14:16-14:20 Discharge >

Confirm

Phone 3 — Economic Mode:

13:58

< Economic Mode

Charge and Discharge Selection   Charge ◆ .... Select charge or discharge to set the detail param.

Select charge mode   PV charging priority ◆ .... Select battery charge sources(PV only or PV+Grid)

Power limit(%)   50.0 ◆ .... Set the max charge power percentage (calculated on the inverter rated output power)

Start time   00:00 ◆ .... Set the force charge starting time

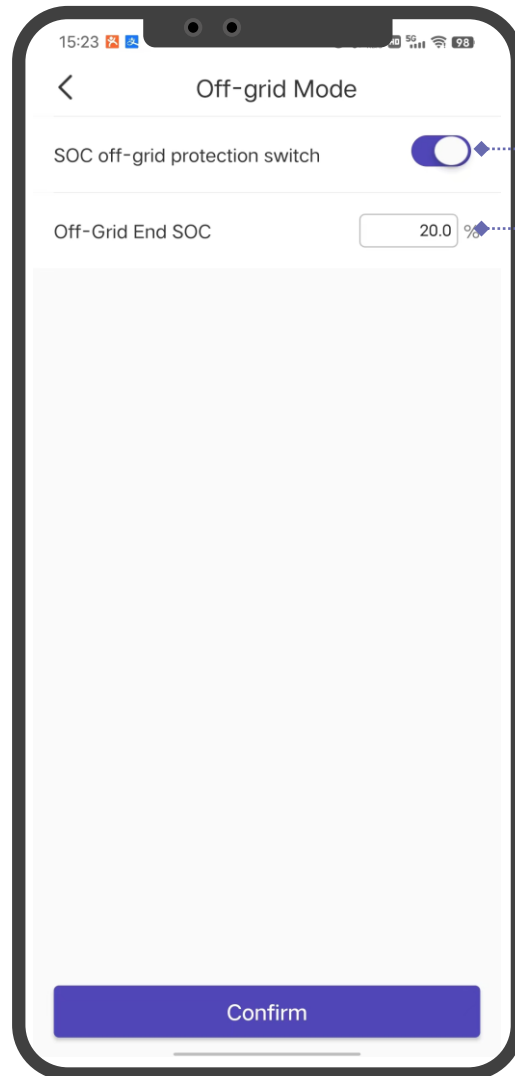End time   00:00 ◆ .... Set the force charge ending time
Note: The end time must be bigger than the start time. Eg. The start time from 17:30, the end time must be less than 23:59, if you want to continue charging the battery, you can set a new charge period from 0:00 to a new end time.

.... You can set up to 6 charging & discharging periods in total

Confirm

# UPS & Off-Grid Modes Configuration

Off-grid SOC ON/OFF switch

Off-grid SOC percentage setting, suggest to set to 1-DOD value

Did you know?

Off-grid settings are the same as UPS mode settings, and the difference is their working logic. For the UPS mode, it usually used in the situation grid connected but power outages always occur. The battery is used as backup power only discharging when grid fails. Off-grid mode usually suits for a long time with no power grid.
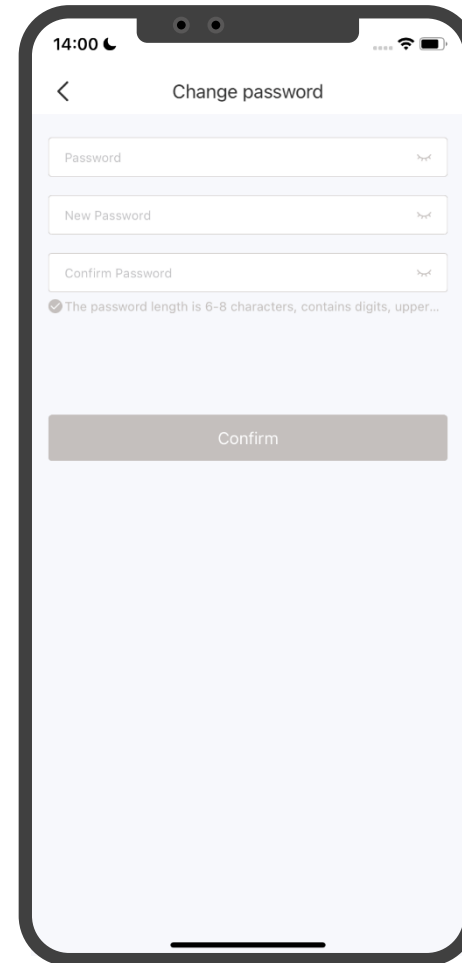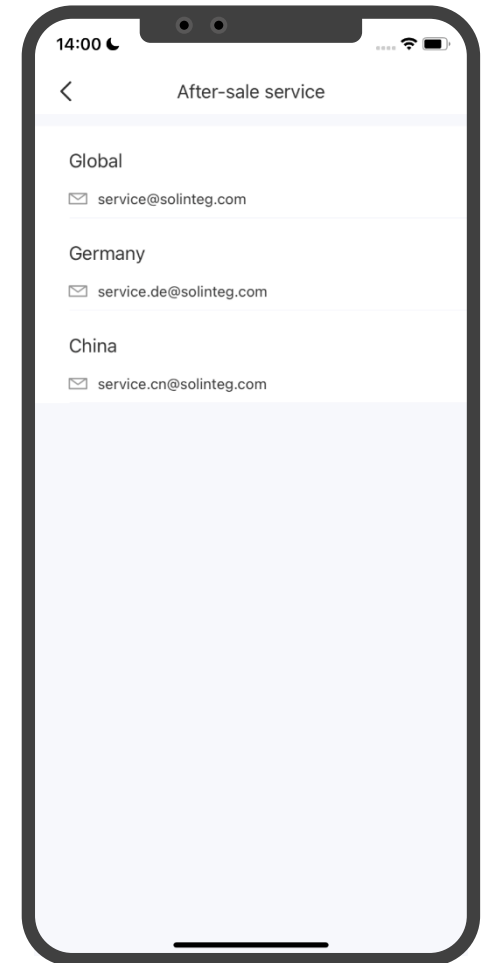
About
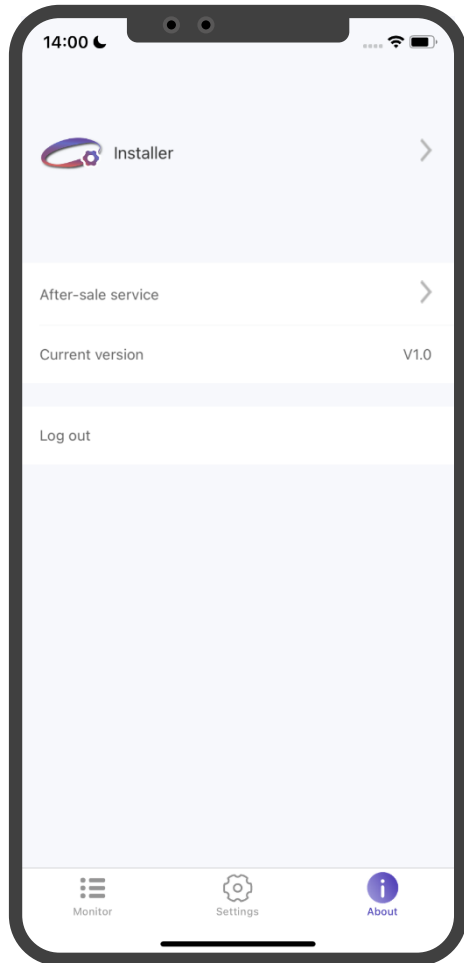
Click "About" to view the account information
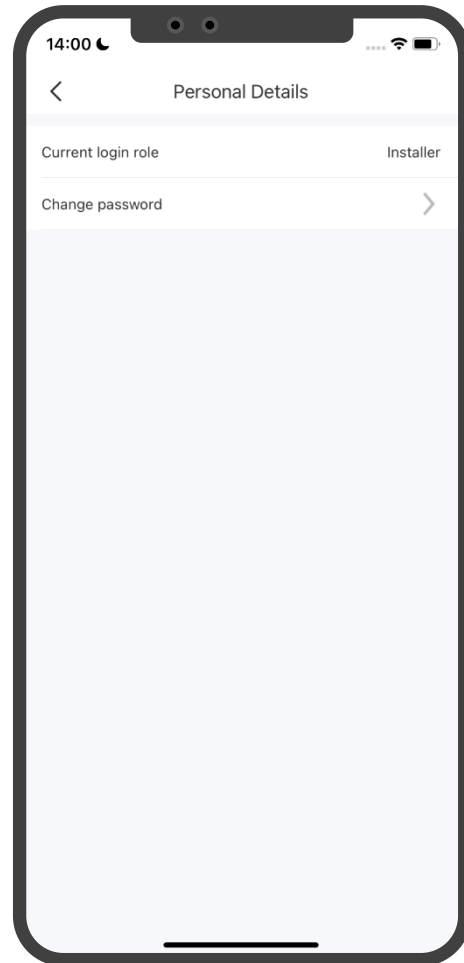
Click the arrow behind "Personal Details" to enter the password modification page

Click the arrow behind "Change password" to change the password

Click the arrow behind "After-sale service" to find out our global service contact

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THANK YOU

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