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ShineServer User Manual

1 About the user manual

1.1 Manual description

Dear users, thank you very much for using the PV Smart Monitoring App developed by Shenzhen Growatt New Energy Co., Ltd. (hereinafter referred to as Growatt). We sincerely hope that this product can meet your needs and expect you to have the performance and performance of the product. Features make more comments. The purpose of this manual is to provide users with detailed product information and installation and operating instructions.

1.2 Copyright Notice

This user manual is copyrighted by Guriwatt. No unit or individual may, without the written permission of the company, copy or reproduce part or all of this user manual, and shall not transmit it in any form, including materials or publications. Infringement must be investigated.

1.3 Applicable personnel and version number

This manual applies to end users and integrator users of Guriwatt. The applicable system version is ShineServer3.0

1.4 Manual usage

Please read this manual carefully before using the PV app. At the same time, please keep this manual in a safe place for the operation and maintenance personnel to find. The contents of the manual will be constantly updated and corrected, and it is inevitable that there will be slight discrepancies or errors in the real thing. Users are requested to use the latest version of the app, and can download the latest user manuals from www.growatt.com or get the latest user manuals through Guriwatt's sales or service channels.

1.5 Update summary

This ShineServer3.0 update mainly optimizes the page display effect and page level.

2 ShineServer Introduction

2.1 Overall summary

The ShineServer system is designed for Internet products designed by distributors, installers, end users and investors to achieve full lifecycle management of power plants, including global multi-station unified operation and maintenance, remote monitoring of equipment and assets.

The main function of ShineServer is to make our PV user group more convenient and quick to master and understand the operation of its own plant, and to carry out some simple operations.

ShineServer integrates PV plant design and evaluation, equipment access and monitoring, and equipment maintenance and revenue management functions. Compatible with a variety of photovoltaic equipment, display detailed statistical data, timely analysis and treatment of power plant failures.

2.2 System URL

In order to facilitate the use of domestic and foreign users, the system provides two system URLs for users to use.

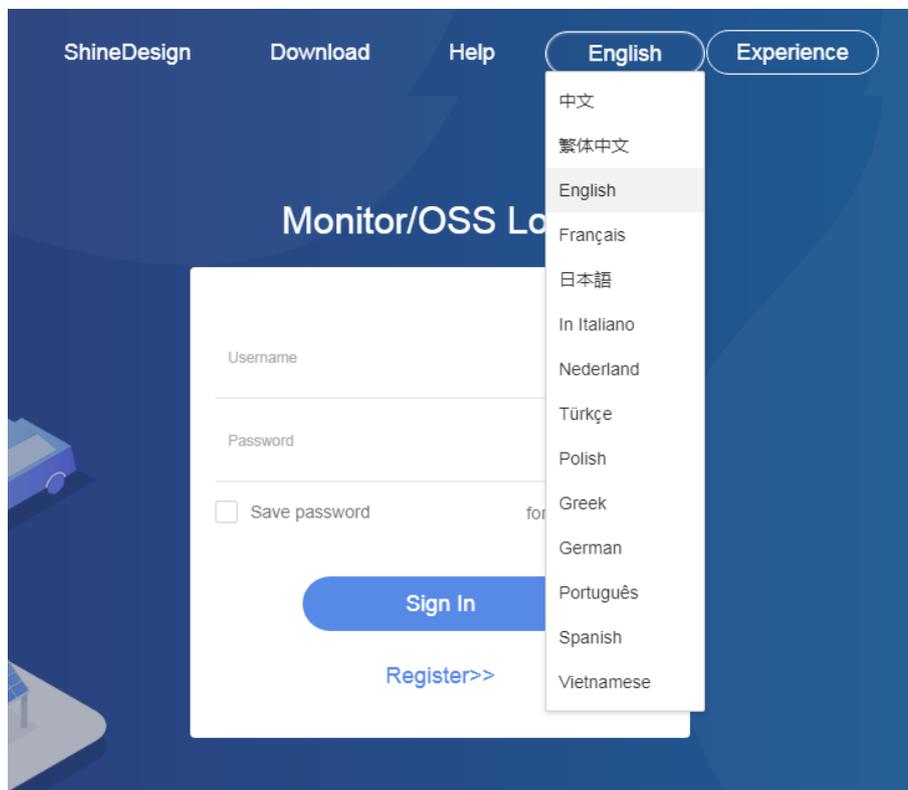
China: server-cn.growatt.com

other: server.growatt.com

3 How to use ShineServer

3.1 language settings

ShineServer currently supports multiple languages. You can see the language switching icon in the upper left corner of any interface. Before using the system, please set the language you need to operate.

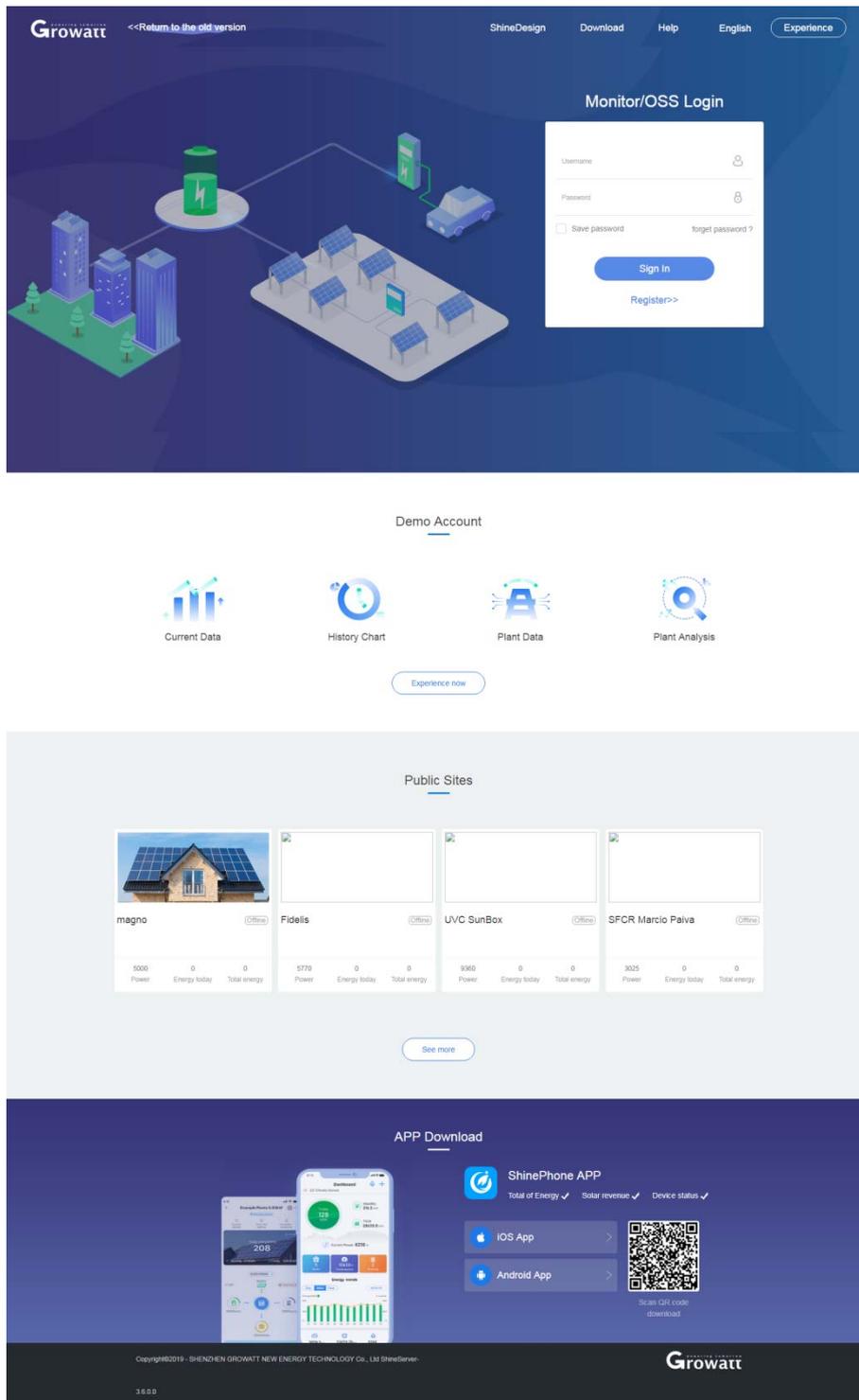


3.2 registered

When using ShineServer for the first time, users must register an account to log in to use ShineServer.

The registration steps are as follows:

1. Open the browser on your computer, type “server-cn.growatt.com” in the address bar of the browser, and press “Enter” to enter the “ShineServer login page”.



2. Click "Register" in the login box to enter the registration user interface. Fill in the registration information as prompted.

Pay attention when registering an account:

- ① Please select the correct country and language to avoid affecting your normal use.
- ② The password must be no less than 6 digits, and it is best to mix letters and numbers to ensure account security.

- ③ Fill in the correct mobile phone number and email address, so you can quickly retrieve your password when you accidentally lose your password.
- ④ Pay attention to the installer number. If there is no installer number, you can leave it blank.
- ⑤ When registering an account, please read the terms and conditions of the company carefully.

User

Country *

Username No more than 30 characters *

Password Not less than 6 digits *

Password confirm Not less than 6 digits *

Language English ▼ *

phone number *

E-Mail *

Installer code

Agree with the Company's terms

3. You can add a plant and equipment when registering users, or you can skip this step and register your account directly. When skipping, the registration process is completed directly, and the user can log in to the ShineServer and then add the plant and equipment.

Pay attention when filling in the plant information:

- ① Plant name (required): The user enters the name of the plant according to his preferences.
- ② Installation date (required): Fill in the installation date according to the actual installation time of the plant.
- ③ time zone (required): Please select the correct time zone to avoid monitoring data

anomalies.

④ Address (required): It can be set automatically by dragging the arrow on the map by map selection point, or you can manually fill in the address of the location of the plant.

⑤ Total power of components (required): Set the total power of the components of the plant.

⑥ Plant type (required): The user selects the type of plant according to the actual situation. The options are household plant, industrial and commercial plant and ground plant. The interface of different power plant types will be different (actual page display, please refer to the ShineServer you are using).

⑦ Capital gains (optional): The income is set according to the power generation of 1KWH on the market. Set the unit price of 1KWH power generation.

⑧ Plant picture (optional): The plant picture is displayed in the plant information according to the picture uploaded by the user.

Pay attention when adding devices:

① Serial number (required): Enter the serial number on the datalogger.

② check code (required): Fill in the check code on the datalogger.

tion

Plant name

Instal date

Time zone GMT -12

Map selection Manual input

Power station address

Please enter the full address

Power(w)

Home plant Business plant

Plant type Surface power station

Capital income RMB(¥)

Plant Image Click upload

Next

Add device (Enter the collector serial number and check code jump over

Serial	Check code
SN:0123456789	CC:12345

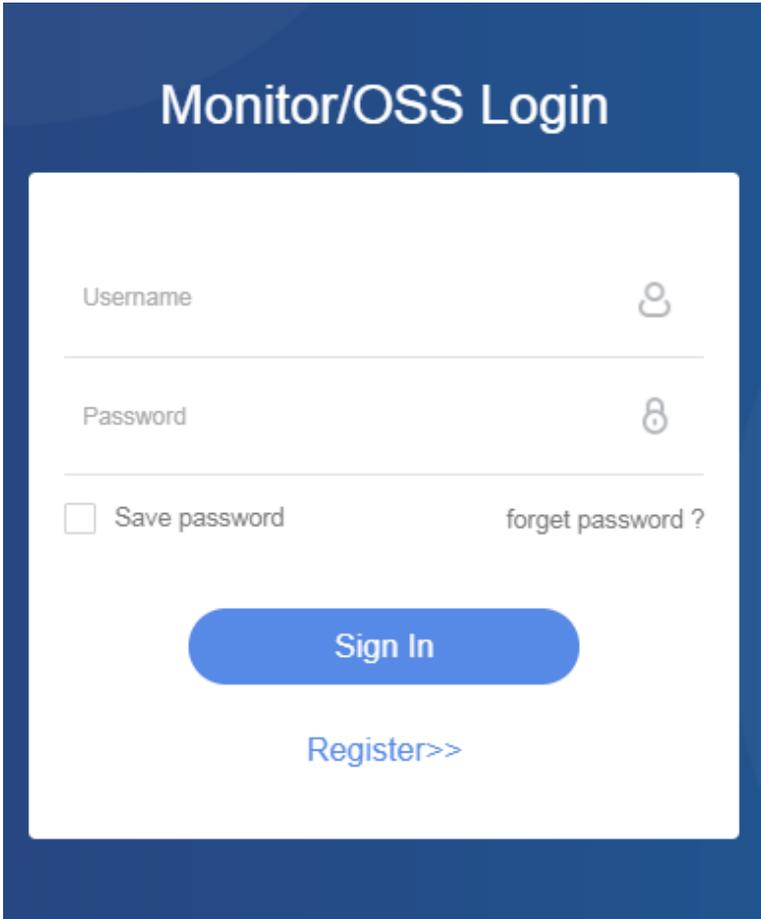
Serial

carry out

3.3 Login and exit

3.3.1 Login

After entering the user name, password, and verification code in the login box of the login page, the user logs in to ShineServer. The user can remember the password. When using ShineServer in the same browser on the same computer next time, you can log in directly without entering the account and password.

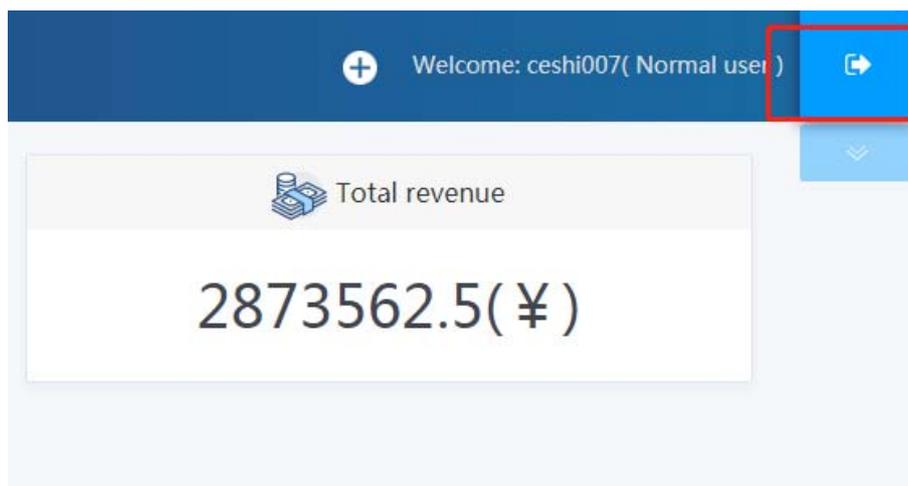


The image shows a login form titled "Monitor/OSS Login" on a dark blue background. The form is white and contains the following elements:

- A "Username" input field with a user icon on the right.
- A "Password" input field with a lock icon on the right.
- A checkbox labeled "Save password" and a link "forget password ?".
- A blue "Sign In" button.
- A blue "Register>>" link.

3.3.2 Exit

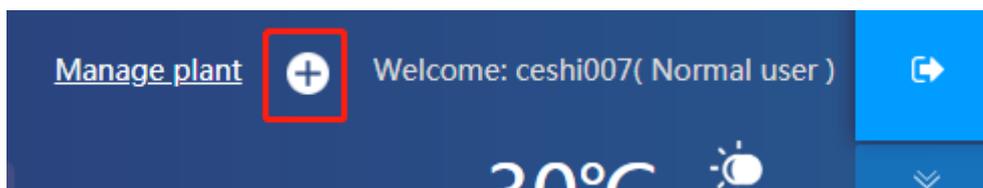
After logging in to ShineServer, you can click the Exit button in the upper right corner of any interface to exit ShineServer.



3.4 Add plant

3.4.1 Add plant and datalogger

Add plants and dataloggers by clicking the "+" at the top of the page in the upper right corner of the interface.



The information to be filled in to add a plant is shown below:

①Installation Information:

Plant name (required): The user enters the name of the plant according to his or her preference.

Installation date (required): Fill in the installation date according to the actual installation time of the plant.

Total component power (required): Set the total power of the components of the plant.

Design manufacturer (not required): Set the service provider of the plant.

Plant type (required): The user selects the type of plant according to the actual situation. The options are household plant, industrial and commercial plant, and ground plant. The interface of different power plant types will be different (actual page display, please refer to the ShineServer you are using).

②Geographic information:

National City (required): Fill in the country city where the user's plant is located.

Time zone (required): Please select the correct time zone to avoid monitoring data anomalies.

Plant picture (optional): Display the plant picture in the plant information according to the picture uploaded by the user.

Location picture (optional): Display the location picture in the plant information according to the picture uploaded by the user.

Latitude and longitude (required): Fill in the latitude and longitude of the location of the plant, or you can automatically set the arrow on the map.

③Income formula:

Capital gains (optional): Set the unit price of 1KWH power generation.

Saving standard coal (optional): The value of standard coal saved by standard 1KWH.

CO2 emission reduction (optional): CO2 emissions reduced by 1KWH power generation.

SO2 emission reduction (optional): SO2 emissions reduced by 1KWH power generation.

Photovoltaic electricity price (optional): Set the PV price of 1KWH power generation.

Peak electricity price: (optional): Set the peak electricity price of 1KWH power generation.

Regular electricity price (optional): Set the flat electricity price for 1KWH power generation.

Valley electricity price (optional): Set the grid price of 1KWH power generation.

The screenshot shows a web form titled "Edit plant(aces1)". It is divided into three main sections:

- Installation information:** Includes fields for Plant name (aces1), Instal date (2019-06-22), Power(W) (1000), and Company (0). The Plant type is set to "Home plant".
- Location information:** Includes Country (China), City (empty), Plant Image (Click upload), Latitude (22.69), Time zone (GMT +8), Location Image (Click upload), and Longitude (113.92). Below this is a Google Map showing the location in Shiyuan Residential District, Shiyuan Reserve.
- Set income formula(Set 1kwh as the conversion standard):** Includes fields for Capital income (0.0 RMB/¥), Coal saved (0.4), CO₂ reduced (1.0), SO₂ reduced (0.03), Solar price (0.0), Peak price (0.0), Peace time (0.0), and Valley time (0.0).

At the bottom right, there are "yes" and "cancel" buttons.

Add the datalogger page as shown below:

- ① Serial number (required): Enter the serial number on the datalogger.
- ② check code (required): Fill in the check code on the datalogger.
- ③ affiliated plant (required): Select the plant to which the datalogger belongs.

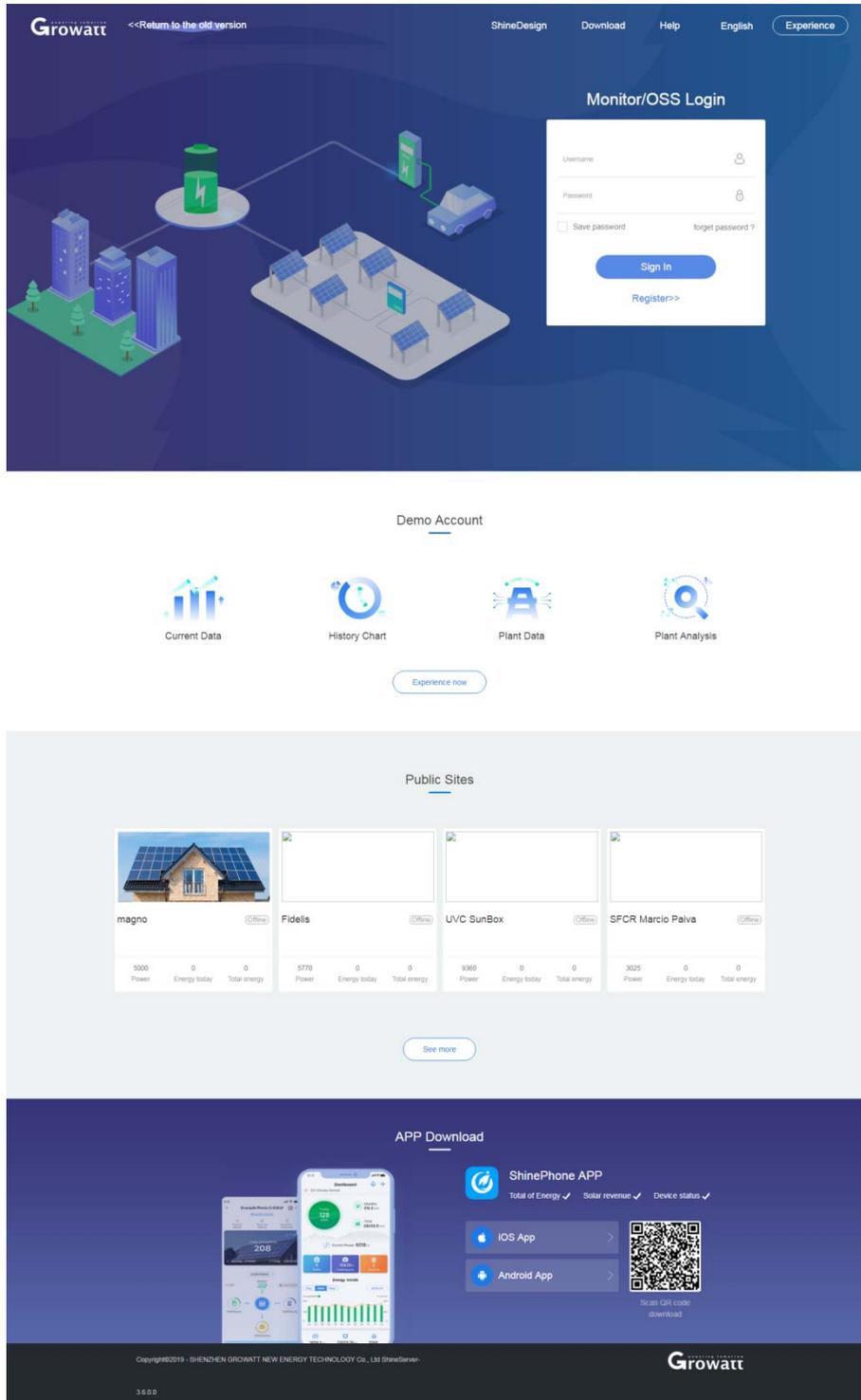
• add data logger ×

• Datalog sn

• belongs

4. ShineServe main interface and its functions

4.1 Login page



The login interface of ShineServer includes login box, forgotten password, user registration, experience hall, photovoltaic plant design, download, help, language switching and other functions.

(1) User login: The user logs in to our system through the existing account and password. If the user has not registered an account, click on the registration below the login button to quickly register the account.

If you have any questions about the password, or if you enter the wrong password, you can click the eye icon on the right side of the password input box to view the password, and click the password again to hide it.

(2) Forgot your password: When you forget your password, you can use the Forgot Password function to retrieve your password. The user can retrieve the password by user name or the serial number of the datalogger and the check code, and the password will be automatically sent to the user's mailbox.

The image shows two screenshots of a web form for password recovery. The first screenshot shows the 'By username' tab selected, with a text input field for 'Username' and a blue 'send e-mail' button. The second screenshot shows the 'By datalog' tab selected, with text input fields for 'DataLog SN' and 'Validate code', and a blue 'send e-mail' button.

(3) User registration: Click the registration button, follow the prompts to fill in the personal information and the plant information registration account.

(4) Photovoltaic power plant design: Click on the PV power plant design to enter the ShineDesign page.

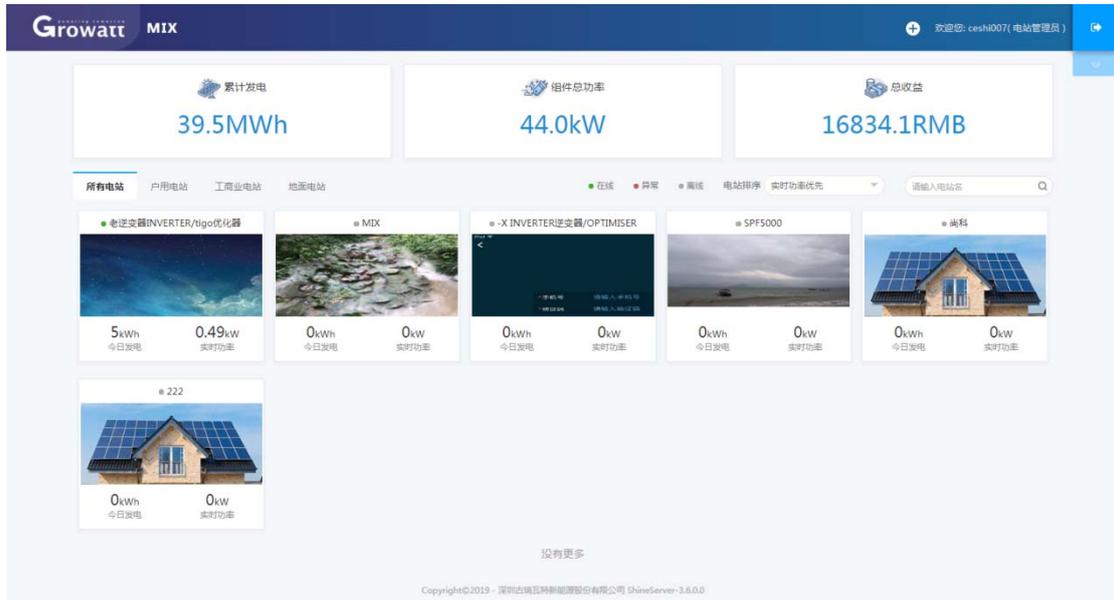
(5) Download: Download related manuals and materials.

(6) Help: Download and view the ShineServer manual.

(7) Demol: View the example plant. (

4.2 ShineServer system page

4.2.1 Plant list

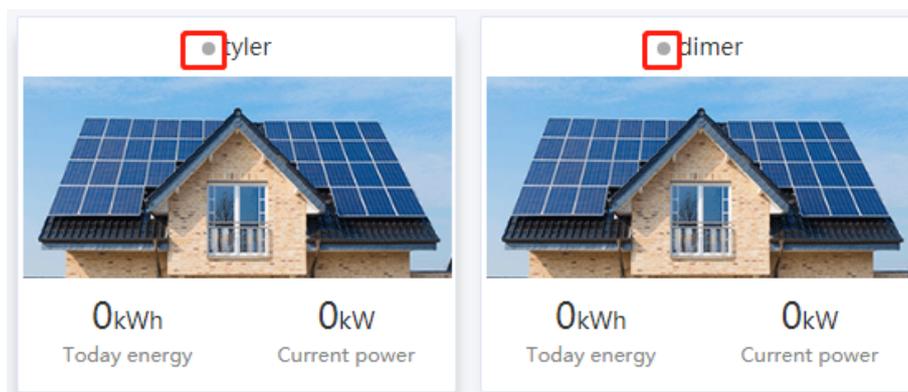


The plant list page shows the cumulative power generation, total component power, and total revenue of all plants.

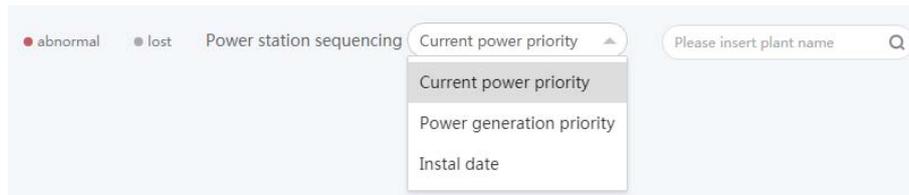
The list of plants of household plants, industrial and commercial plants, and ground plants can be classified to show the status of the plants.

Search for keywords to find a plant.

The status of the plant is divided into three states: online, abnormal, and offline. On the left side of the plant name, there will be green, red, and gray small dots to indicate the plant status. The green, red, and gray colors correspond to the online, abnormal, and offline states.



可根据实时功率优先、发电量优先、安装日期三种方式来调整列表的排序。



4.2.2 Dashboard

On the dashboard page, the features available to the user:

- (1) System diagram of the plant.
- (2) Display different system diagrams depending on the type of plant.

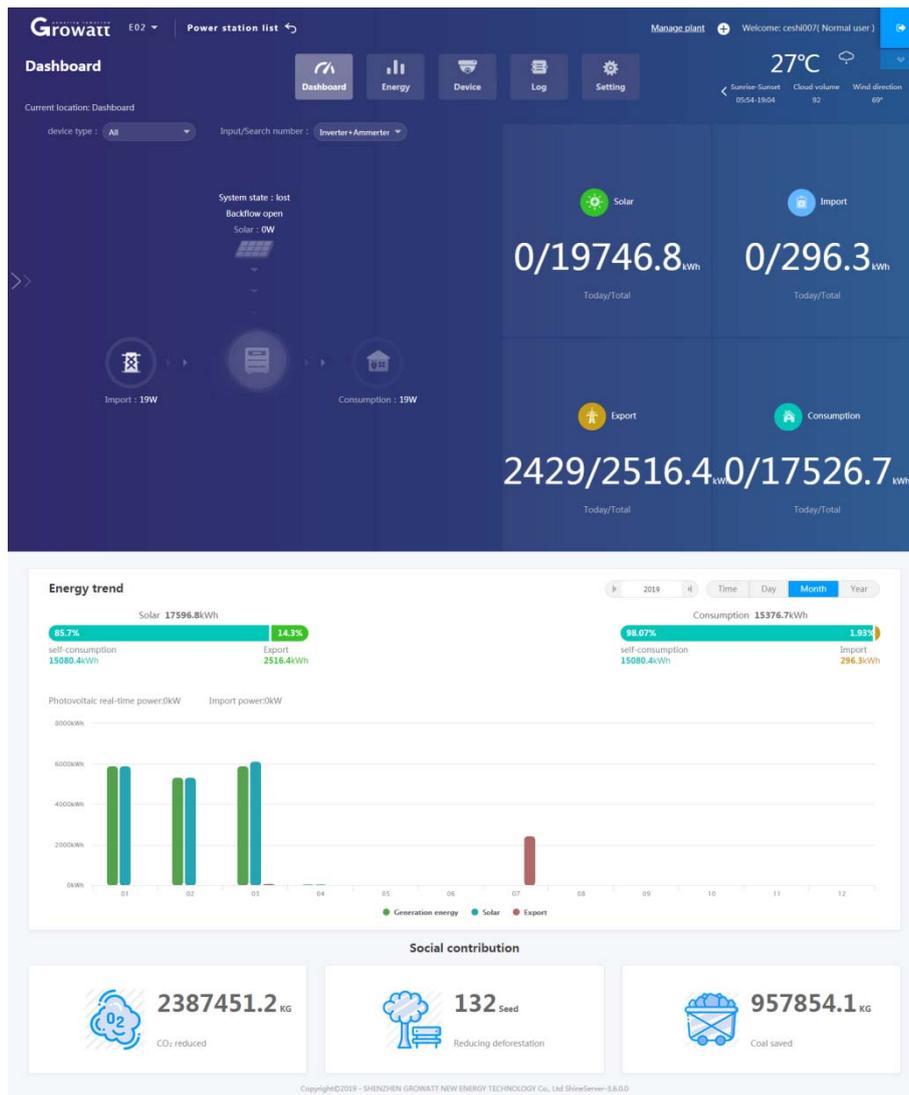
(3) According to the type of plant, it displays information such as today's and accumulated photovoltaic output, power grid power, feed back to the grid, electricity consumption, and revenue.

- (4) Display the chart information of the real-time power and historical power of the plant.

View the energy saving and emission reduction of the plant.

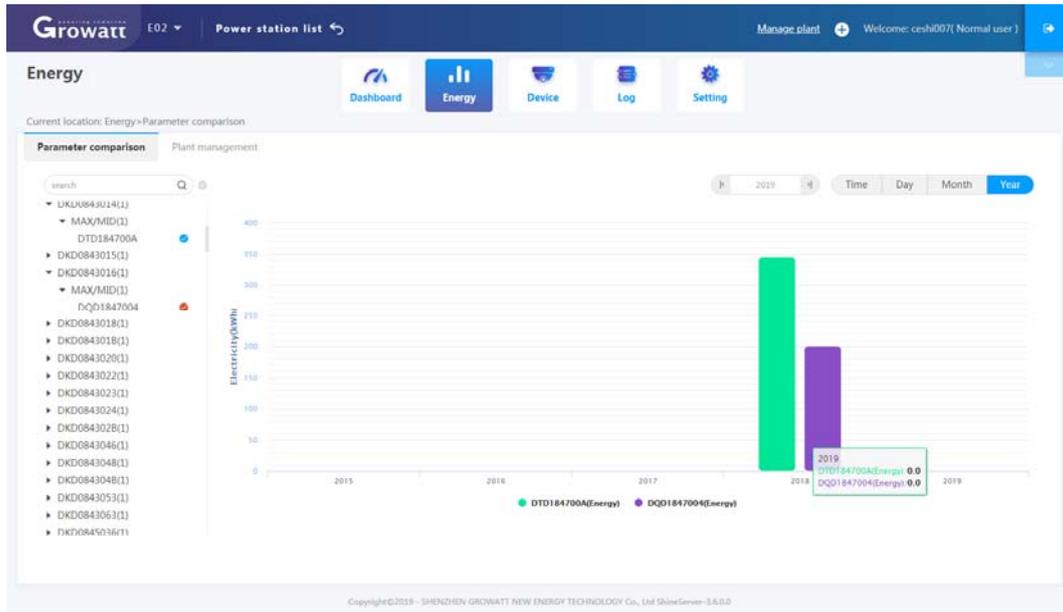
- (5) The “+” in the upper right corner can add plants and dataloggers.

Note: The dashboard page in the figure below is for reference only. The actual page will be slightly different depending on the equipment purchased by the user.



4.2.3 Energy

4.2.3.1 Energy - parameter comparison



As shown in the above figure, the default display shows the data of the selected plant. In addition, different parameters can be displayed according to the different equipments selected in the plant. The above picture defaults to the photovoltaic plant. If there are multiple plants, you can choose the one you want to see. Plant to display. After selecting the plant, select the datalogger, and place the mouse under the datalogger button to automatically display the pull-down datalogger list. Select a datalogger to stand it. On the left side, all the PV devices monitored under the datalogger will appear. You can choose the PV device curve you want to see. You can select one or more, but you can only select the same device at the same time.

Different devices have different parameters displayed below, and the curves of the displayed graphics are different. As shown in the figure above, the inverter has pv power, pv1 voltage, pv1 current, pv2 voltage, pv2 current, R phase power, s phase power, T phase power 8 parameters, check the contents of the selected parameters for different parameters, and the curve will be different.

(1) Compare the power, voltage, current and other parameters of a single or multiple devices.

(2) Look at historical parameter information.

(3) Exportable device reports, energy storage machine reports, and SPF off-grid reports.

4.2.3.2 Energy - plant management

Current location: Energy>Plant management

Parameter comparison: **Plant management**

Plant name:

No.	Plant name	Country	City	Instal date	Time zone	Power(W)	Total energy(kWh)	operating
1	tyler	Other		2019-07-30	-12	0	0	
2	dimer	Thailand		2019-07-31	7	0	0	

total 2 Article To first page

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(1) Display information about all plants under the account.

(2) It is possible to build new plants, edit plant information, share plants, transfer plants, and delete plants.

(3) Search for a plant by keyword.

4.2.3 Device

Current location: Device>Photovoltaic equipment>Inverter

Photovoltaic equipment

power

0 current power(kW) 14318.8 rated power(kW)

Generation energy

0 Energy today(kWh) 2777.1 Monthly(kWh) 2394635.2 Total energy(kWh)

Gains

0 Income today(¥) 3332.5 Income month(¥) 2873562.5 Income total(¥)

datalog **Inverter** AC Couple MIN meter

device serial number or alias:

M35A510490

(1)

Device serial number : M35A510490 connect status : lost Update Time : 2019-07-16 20:43:29 rated power(W) : 3000

user name : ceshi007 Plant name : E02 datalog : AUA37W16A0 current power(W) : 0

Today energy(kWh) : 0 Monthly energy(kWh) : 0 Total energy(kWh) : 498.5 Device address :

History Data

Delete

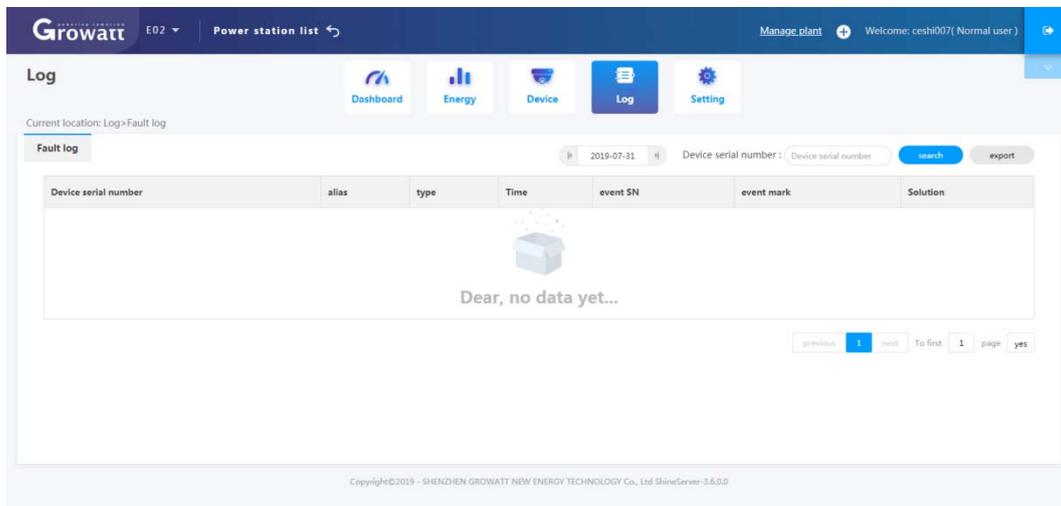
(1) Display the current power and rated power of all photovoltaic equipment; today's electricity, current electricity, accumulated electricity; today's income, current month's income, and cumulative income.

(2) Sub-device type display device list, such as datalogger, inverter, energy storage machine, combiner box, etc.

(3) Edit, set, and delete the devices in the list. View device details data. Care must be taken when editing, setting, and deleting devices. Please follow the instructions of professionals to avoid equipment unavailability.

(4) Devices can be added.

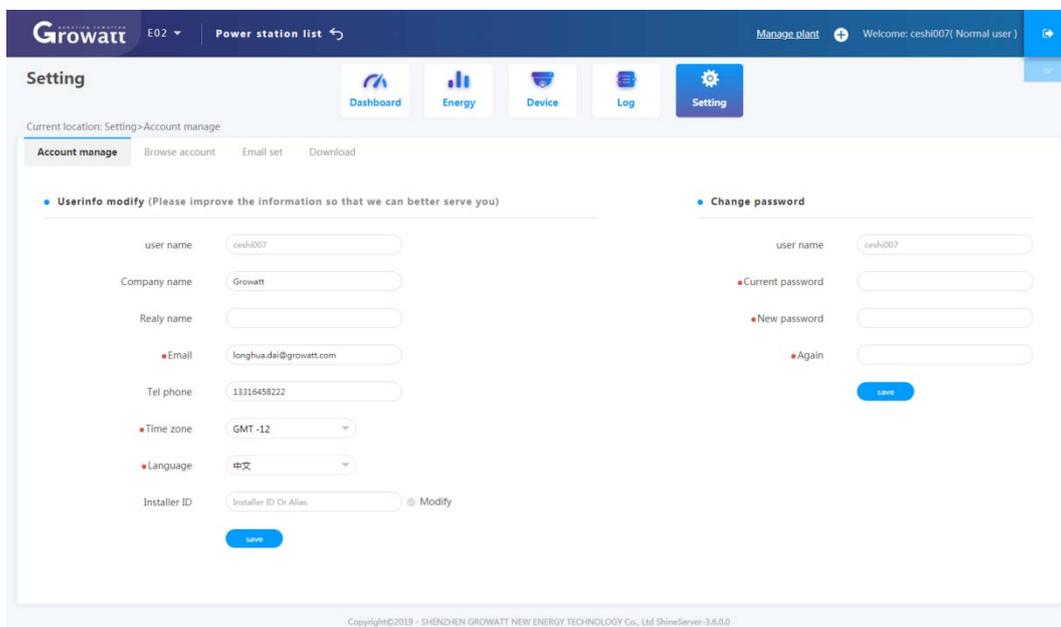
4.2.4 Log



On the log page, you can view the abnormal history data in all settings. Users can search for abnormal records of some devices and export the fault log.

4.2.5 Setting

4.2.5.1 Settings - Account Management

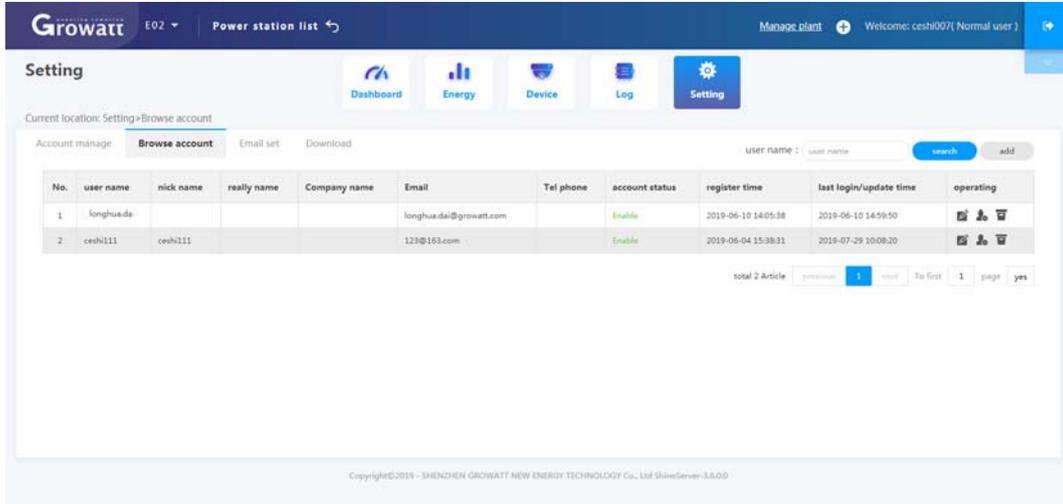


(1) Display personal information of the user, and modify the personal data.

(2) Change the password. When changing the password, you need to enter the currently used password for verification.

(3) The user's email address, time zone and language are required, which is convenient for the system to display the correct content and push the fault information in time.

4.2.5.2 Settings - browse user list



Setting

Current location: Setting>Browse account

Account manage Browse account Email set Download

USER NAME:

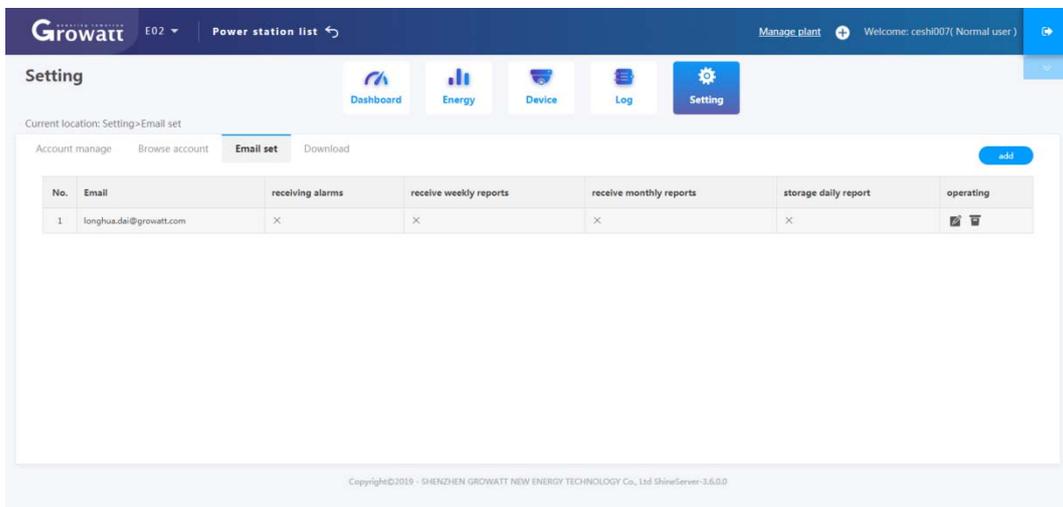
No.	user name	nick name	really name	Company name	Email	Tel phone	account status	register time	last login/update time	operating
1	longhua.de				longhua.de@growatt.com		Enable	2019-06-10 14:05:38	2019-06-10 14:59:50	<input type="checkbox"/> <input type="checkbox"/>
2	cesh111	cesh111			123@163.com		Enable	2019-06-04 15:38:31	2019-07-29 10:08:20	<input type="checkbox"/> <input type="checkbox"/>

total 2 Article To first page

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Show all browsing users, you can add browsing users, set the permissions to browse users.

4.2.5.3 Settings - Mailbox Settings



Setting

Current location: Setting>Email set

Account manage Browse account Email set Download

No.	Email	receiving alarms	receive weekly reports	receive monthly reports	storage daily report	operating
1	longhua.de@growatt.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

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Display all the mailboxes that receive the report, you can modify the mailbox and set the type of report received by the mailbox. If the plant and equipment have alarm information, a report will be sent to the specified mailbox. You can add a new mailbox or delete a mailbox.

4.2.5.4 Settings - Download

Setting

Current location: Setting>Download

Account manage Browse account Email set **Download**

Document

No.	file name	file type	file size	update time	download
1	ShineServer user manual	pdf	4.1MB	2015-05-21	中文 English
2	Growatt ShineWiFi user manual(ShineWiFi用户手册)	pdf	4.33MB	2016-08-18	中文 English
3	Growatt_Shine3G_ShineGPRS_user_manual(Shine3G_ShineGPRS用户手册)	pdf	1.72MB	2016-08-18	中文 English
4	Android Growatt APP Module	pdf	0.2MB	2016-01-25	中文 English
5	IOS Growatt APP Module	pdf	0.2MB	2016-01-25	中文 English
6	Growatt Old WiFi Update Module	pdf	0.4MB	2016-04-25	中文 English
7	Growatt Webbox Update Module	pdf	0.2MB	2016-04-25	中文 English
8	Growatt Webbox Instructions	pdf	1.27MB	2017-07-20	English

Tool

No.	file name	file type	file size	update time	download
1	ShineWiFi	apk	1.8M	2016-05-21	download
2	ShineWiFi	IOS	1.2M	2015-03-25	download
3	ShineWiFiSetup	ZIP	1.2M	2016-09-09	download

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On this page, users can download various operating manuals in both Chinese and English as well as ShineWiFi's setup tools.

5 contact us

Growatt New Energy provides customers with a full range of technical support, users can contact the nearest Growatt new energy office or customer service point, or directly contact the company customer service center.

Name: Shenzhen Growatt New Energy Co., Ltd.

Address: Growatt Industrial Park, Shiyan Street, Baoan District, Shenzhen, P.R.China

TEL: +86 755 27471942

E-mail:service@ginverter.com

Company website: www.growatt.com