

SSA-Energy configuration User Manual 2.0

Vision

Star Charging - Service Cloud Product Department January 2025 version: V2.0.0 Wanbang Digital Energy Co., Ltd

StarCharge

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Introducing our App -Your on-site work configuration tool. Star Charging provides Star Services Application(SSA) as a charger and residential energy storage system(RESS) configuration tool for external installation. It supports RESS installers to configure devices using Bluetooth connection, and can

also bind this device after logging in. Installers can view device status, issue configurations, upgrade devices, and perform basic operation and maintenance through cloud based operations.



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1. Register and log in

Log in

- Select login region: Users can choose according to their actual location. If there is a specified country, please select the corresponding country. For example, in the United Kingdom region, please select "Europe (UK)".
- Login: You can enter the APP by logging in with your username and password or a verification code.
- Remember account: When logging in, users can choose to remember their username and password, and this information will be automatically filled in the next time they log in.

Workbench

• Workbench: The entrance to the widget is displayed in the upper right corner. Click to enter the tool page, where you can configure chargers, energy equipment, and scanning settings when not logging in.





1. Register and log in

Company registration

- Enter the company name.
- Select a region; you can choose from 6 continents.
- Enter your email address as your username.
- Enter the password, which should be a string composed of at least 8 digits, English letters, and special symbols.
- The verification code is the one received via email.
- After clicking "Sign up" Successfully, an invitation code will be automatically generated, and staff can register and enter the enterprise through the invitation code.





1. Register and log in

Staff registration

- Enter the invitation code.
- Enter the staff email as the login account.
- Enter a password containing English letters, numbers, and special symbols.
- The verification code is the one received via email.
- After successful registration, staff can log in to the enterprise associated with the invitation code.



Staff Register

Please enter

Cancel



2. Equipment Management

Equipment inquiry

- After entering the APP, you can check the bound energy equipment and query them by equipment status and SN.
- After clicking on the equipment, you can enter the equipment details page, which displays the name, number, serial number, status, firmware number, and sub-equipments under the main equipment.





2.1 Equipment details

Firmware update

- Go to the firmware update page of the main equipment, select the sub-equipment to obtain the latest firmware number, select the firmware number and click the 'Download and install' button to upgrade.
- Click the sub-equipment update button to enter the sub-equipment update page, where the firmware number of the sub-equipment will be automatically obtained. Then, select the firmware number, click the "Update" button, and upgrade the sub-equipment.





2.1 Equipment details

Equipment configuration

 Enter the equipment configuration page, where you can deliver and restart the equipment configuration. After selecting the configuration, click 'configuration' button and obtain the latest configuration. Wait for 60 seconds before refreshing. Click the 'Refresh' button to select the sub-equipment to restart.



Real-time data

• The real-time page displays the real-time data of the equipment and you can click to view detailed information.







2.2 Binding equipments through SN

- Enter the list of energy equipment, click the icon in the upper right corner, and then click the 'Scan code binding' button to go to the equipment binding page, where you can bind the installer to the equipment.
- After the binding is successful, a success message will be displayed. After the list is refreshed, you can view the newly bound equipment.







2.3 Unbind equipment

In the equipment details, you can unbind the equipment.

- Click the "Unbind" button to remove the binding between the installer and the equipment. A success message will be displayed upon successful unbinding.
- After clicking the "Refresh" button, there is a 3-second refresh period. If the refresh is successful, the sub-equipment data automatically refreshes after 30 seconds, or a scheduled task refreshes the data every 15 minutes.







STAR CHARG



3. Energy configuration via Bluetooth

There are two entrances

• The configurable items without logging in are the same as those when logged in. The difference is that you can bind the device while configuring it when logged in.

Method 1: Not logged in

• If you are not logged in, you can configure the energy equipment via Bluetooth on the Workbench.





3. Energy configuration via Bluetooth

Method 2: After logging in

 After logging in, click the "..." icon in the upper right corner of the equipment list to configure the energy equipment via Bluetooth. Select Vesta or vLight equipment to scan the equipment code and configure the equipment after entering.





Select product

• Select the energy configuration and select the corresponding product based on the equipment you want to configure.







Follow the scanning instructions to scan the code and enter the PIN to establish a Bluetooth connection.

Vesta guide:





Follow the scanning instructions to scan the code and enter the PIN to establish a Bluetooth connection.

vLight guide:





Scan code and verify PIN code

- If there are inverters, batteries, meters, charging stations, dongles, and other equipment on site, scan the barcode on the side nameplate of the inverter to establish a connection after the electrical installation is completed and the system is powered on.
- If only batteries are installed on site, scan the barcode on the top of the battery to connect after completing the installation and ensuring that the system is powered on.
- When connecting to Bluetooth, please ensure that the app has Bluetooth permission on the phone and that the phone's Bluetooth is enabled.





After successfully connecting to Bluetooth, you will be taken to the configuration page, where you can see the following configurations.

Configuration

- WiFi settings (necessary)
- Grid code and system time (necessary)
- Parallel battery settings(necessary)
- System restart (unnecessary)
- Automatic Detection-Italy





The system needs to be connected to the user's home network in order to communicate with the cloud. Otherwise, the user will not be able to view and control the system operation through the app. Please confirm the wireless network and password at home with the user and send them to the device via the app. When the NET light on the dongle is always on or the network connection status on the page is connected, it indicates that the system has successfully connected to the current network.

WiFi settings

- Check the available networks for the device, select one, and enter the correct password to connect it to the network.
- The device attempts to connect to this network, and the "Network" light remains on to indicate a successful connection.
- Currently, only networks in the 2.4GHz band are supported.





Grid code and system time

- The system needs to select the correct grid code based on the location and will operate according to the safety regulations of the corresponding grid. If the selection is incorrect, it may cause system failure or inability to operate. If you are unsure how to make the selection, please contact Star Charge service personnel for assistance.
- When executing the charging and discharging plan, the system needs to obtain the correct timing. Please select and apply the correct time zone. When connected to a network, the system will calibrate regularly to ensure time accuracy. You can also compare the current system time with the latest time.





Parallel battery settings

This configuration is used to connect one or two batteries to each Vesta. Upgrade information will be delivered based on the device address during firmware upgrade. Be sure to configure it correctly.

- If an inverter has two batteries, the inverter switch needs to be turned on
- If an inverter has a battery, the inverter switch needs to be turned off





System restart

- When the system encounters problems again, you can try to restart the software of certain devices for recovery.
- The device may disconnect from the phone's Bluetooth or network connection during a restart.
- The devices that support restarting include:



Dongle





Battery





3.2 Configure Vesta

Automatic Detection-Italy

After the required settings are configured, this menu can be self-checked. At present, only in support of Italy, the general self-test function will be developed in the future.

< Automatic Detection	
Automatic Detection	
Rapporti del Sistema di Protezione di l	nterfaccia
SN:2341V124TENCN0007	
Test Time: 2025-01-02 14:39:56	
Tensione massima oltre 10 min (59.S1):
Impostazione valore spegnimento	253,0\
Impostazione tempo spegnimento	3000ms
Valore misurazione	254,31
Tempo interruzione misurazione	2988ms
Stato controllo automatico Operaz	ione riuscita
Tensione massima (59.S2):	
Impostazione valore spegnimento	264,51
Impostazione tempo spegnimento	200ms
Valore misurazione	264,91
Tempo Interruzione misurazione	188ms
Stato controllo automatico Operaz	ione riuscita
Tensione minima (27.S1):	
Impostazione valore spegnimento	195,5\
Impostazione tempo spegnimento	1500ms
Valore misurazione	194,5
Tempo interruzione misurazione	1488ms
Stato controllo automatico Operaz	ione riuscita
Tensione minima (27.S2):	
Impostazione valore spegnimento	34,5\
Impostazione tempo spegnimento	200ms
Valore misurazione	34,2\
Tempo interruzione misurazione	188ms
Stato controllo automatico Operaz	ione riuscita
Frequenza massima (81>S2):	



After successfully connecting to Bluetooth, you will be taken to the configuration page, where you can see the following configurations.

Configuration

- WiFi settings (necessary)
- System time (necessary)
- System operation parameters (necessary)
- System reboot (unnecessary)





The system needs to be connected to the user's home network in order to communicate with the cloud. Otherwise, the user will not be able to view and control the system operation through the app. Please confirm the wireless network and password at home with the user and send them to the device via the app. When the NET light on the dongle is always on or the network connection status on the page is connected, it indicates that the system has successfully connected to the current network.

WiFi settings

- Check the available networks for the device, select one, and enter the correct password to connect it to the network.
- The device attempts to connect to this network, and the "Network" light remains on to indicate a successful connection.
- Currently, only networks in the 2.4GHz band are supported.





System time

• When executing the charging and discharging plan, the system needs to obtain the correct timing. Please select and apply the correct time zone. When connected to a network, the system will calibrate regularly to ensure time accuracy. You can also compare the current system time with the latest time.





System restart

- When the system encounters problems again, you can try to restart the software of certain devices for recovery.
- The device may disconnect from the phone's Bluetooth or network connection during a restart.
- The devices that support restarting include:



Dongle

Battery





System operating parameters

• vLight is a battery product specifically designed for third-party photovoltaic inverters. The DC side connects to the existing photovoltaic inverter at the user's site. Since the DC port voltage range varies among different photovoltaic inverters, please refer to the nameplate information on the third-party inverter and enter its maximum voltage as the operating parameter for vLight to protect the battery. If this information is unavailable, please contact Star Charge service personnel for assistance.





4. Mine

• Account and Security: Modify account login password

- Privacy Agreement
- Invitation Code
- Current version
- Contact Us





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THANK YOU

