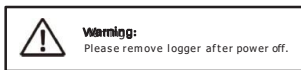


Notice:

Please read this manual carefully before using products and keep it in the place where O&M providers can easily find.

Due to product upgrade and other factors, the content of this manual might change from time to time. Please take actual product as standard and get latest manual from soluna. Unless otherwise agreed herein, this manual will only be used as guidance. Any statement, information or suggestion in this manual will not take any form of responsibility.

Without written permission, any content of this document (partly or entirely) cannot be extracted, copied or transmitted in any form by any company or individual.



Download APP

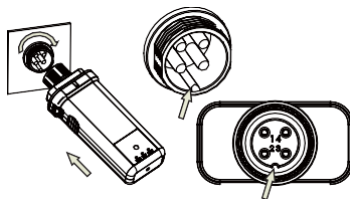
Method 1: Download the iOS version by searching for the keyword "Soluna eCloud" on the App Store.

Method 2: Download the Android version by searching for the keyword "Soluna eCloud" on the Google Play.

Method 3: log in to <https://ecloud.solunabattery.com> download the Android version

Stick Logger Installation

Step1: Assemble logger to the device communication interface as shown in the diagram. (Note the notch at the interface)



Step2: Check Indicator light

Lights	Implication	Status Description (All lights are single green lights.)
COM	Communication with device	1. Light keeps on: Logger connected to the device. 2. Light off: Connection to the device failed. 3. On 100ms/Off 100ms (Fast flash): Communicating with device.
NET	Communication with router	1. Light off: Connection to the router failed. 2. On 1s/Off 1s (Slow flash): Connection to the router succeeded. 3. Light keeps on: Connection to the server succeeded. 4. On 100ms/Off 100ms (Fast flash): Distributing network fast.
STAT	Logger running status	1. Light off: Running abnormally. 2. On 1s/Off 1s (Slow flash): Running normally.

The normal operation status of the stick logger, when router connected to the network normally:

1. Connection to the server succeeded: NET light keeps on after the logger powered on.
2. Logger running normally: STAT light flashes.
3. Connection to the device succeeded: COM light keeps on.

Abnormal State Processing

If the data on platform is abnormal when the stick logger is running, please check the table below and according to the status of indicator lights to complete a simple troubleshooting. If it still can not be resolved or indicator lights status do not show in the table below, please contact Customer Support. (Note: Please using the following table query after power-on for 2 mins at least.)

COM	NET	STAT	Fault Description	Fault Cause	Solution
OFF	Any state	Slow flash	Communicate with device abnormally	1. Connection between stick logger and device loosen. 2. Device does not match with stick logger's communication rate.	1. Check the connection between stick logger and device. Remove the stick logger and install again. 2. Check device's communication rate to see if it matches with stick logger's.
ON	OFF	Slow flash	Connection between logger and router abnormal	1. Stick logger does not have a network. 2. Router WiFi signal strength weak.	1. Check if the wireless network configured. 2. Enhance router WiFi signal strength.
ON	Slow flash	Slow flash	Connection between logger and router normal, connection between logger and remote server abnormal.	1. Router networking abnormal. 2. The server point of logger is modified. 3. Network limitation, server cannot be connected.	1. Check if the router has access to the network. 2. Check the router's setting, if the connection is limited. 3. Contact our customer service.

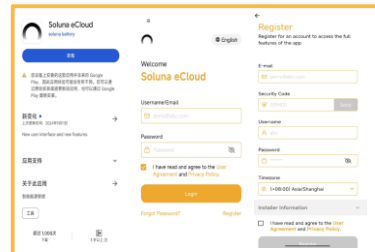
OFF	OFF	OFF	Power supply abnormal	1. Connection between stick logger and device loosen or abnormal 2. Device power insufficient. 3. Stick Logger abnormal.	1. Check the connection, remove the stick logger and install again. 2. Check device output power. 3. Contact our customer service.
Any state	Fast flash	Any state	Networking status	Normal	1. Exit automatically after 5 mins. 2. Long press Reset button for 5s, reboot stick logger. 3. Long press Reset button for 10s, restore factory settings.
Any state	Any state	Fast flash	Restore factory settings	Normal	1. Exit automatically after 1 mins. 2. Long press Reset button for 5s, reboot stick logger. 3. Long press Reset button for 10s, restore factory settings.

USER MANUAL for Soluna APP

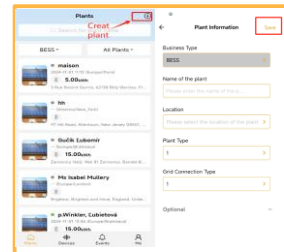
Please make sure Bluetooth and WiFi are ON and the router can connect to the network normally.

1. Registration

1. iOS: Go to 'App Store' download 'Soluna eCloud' App and register.
2. Android: Go to 'Google Play' download 'Soluna eCloud' App and register.



- 2) Select power plant type
 - 3) Enter the power plant name
 - 4) Select grid connection type
 - 5) Enter the location of the power plant (the time zone will be automatically matched with the selected address)
 - 6) Enter the installed capacity, electricity yield, and currency type
- Click the "Complete" button in the upper right to create the power plant.



2. Create a plant

Navigate to the "Power Plant" page and click on the "..." button in the upper right corner to enter the power plant creation page.

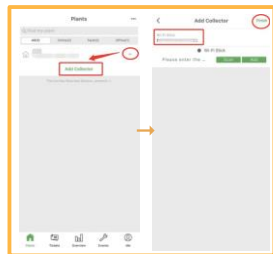
Complete the power plant information as prompted (fields marked with "*" are required).

The information you need to provide includes:

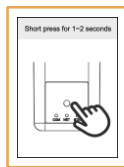
- 1) Select business type (default is battery system)

3. Add a collector

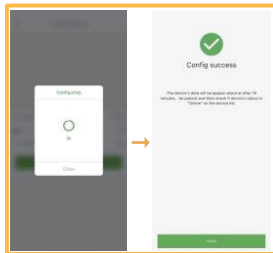
After creating the power plant, you need to add a collector to it. Click the "Add collector" button at the rear of the power plant, and then click the "Add collector" button at the bottom. select the collector model, and then you can continue to scan the QR code on the device to add it, or enter the serial number to add it. You can enter multiple collector serial numbers at once, when the added serial number appears above, click the "Finish" button in the upper right corner of the page to complete the addition of the collector.



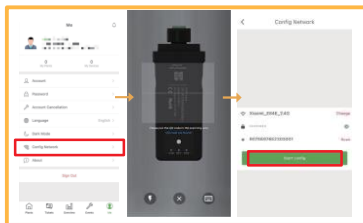
Step 2: Short Press the "white button" 1-2 seconds to make the WiFi stick enter the config network state. (Please make sure that the NET light of the WiFi stick is in a quick flashing)



Step 4: Please wait for a few minutes. Then click "Done" and finish the Network Configuration. Then check the data of the device on the app.



Step 3: Scan the Bar Code on the stick logger or input it manually. Check the WIFI SSID and input the password of the router, then click "Start Config".



Step 5. Battery information will be displayed in 10-15 mins.

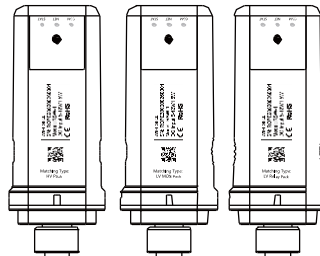


If configuration failure occurs, please check the following reasons and try it again.

- 1) Make sure WLAN is ON.
- 2) Make sure WiFi is normal.
- 3) Make sure wireless router does not implement the white-black list.
- 4) Remove the special characters in Wi-Fi network.
- 5) Shorten the distance between the phone and device.
- 6) Try to connect to other Wi-Fi.

Warning: Please make sure the stick logger is working properly before you leave the site. If there is anything abnormal, please do not leave the site and contact customer service at the first time.

The wifi stick is divided into the following three types



Please note that the parallel box does not use communication cables and brackets



Match type	Adapted products
HV Pack	Soluna 6K Pack HV (L-E), Soluna 10K Pack HV(L-E), Soluna 15K Pack HV(L-E)
LV MOS Pack	Soluna BES-5K Pack, Soluna Planta 2.5K Pack
LV Relay Pack	Soluna EOS-5K Pack Soluna 10K Pack LV Soluna Franz 9.6K Pack LV

If you have any technical queries about our products, please contact us and provide the following information:

Email: sales@solunabattery.com
Tel: +86-21-57475835

- 1) Product model and serial number of stick logger.
- 2) Product model and serial number of connected device.

Thank you for your support and cooperation!

4. Network Configuration

Step 1: Go to "Me", click "Config Network", connect to the network. (Please make sure Bluetooth and WiFi are ON, and make sure your phone is connected to the correct WiFi)

Notice:
5G WiFi is not supported.
Special characters (e.g. ; " *") in router name and password are not supported.