

SOLUNA WiFi Stick Quick Guide

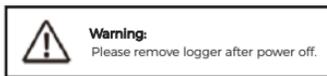
Ver.A.3

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

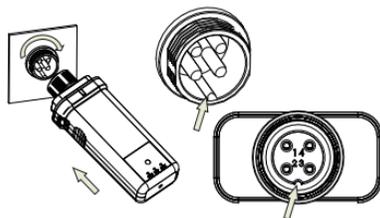
Method 1: Download the iOS version by searching for the keyword "Soluna eCloud" on the App Store.

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. 3. Long press Reset button for 5s, reboot stick logger.
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.

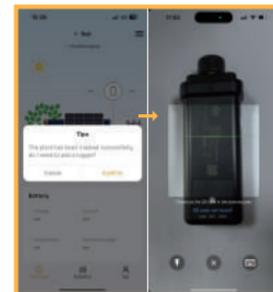
1. Registration and log in

Open the Soluna ecloud APP, click the "Register" button, enter your email address to receive a verification code, complete the remaining information in the dialog box, and you'll see a message saying "Congratulations, registration successful," allowing you to proceed to the next step.



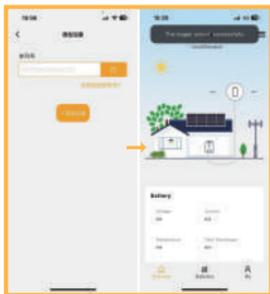
3. Add a collector

Click the confirmation option, scan the QR code on the WiFi stick (you can also enter the SN manually), then it will prompt that the addition is successful and proceed to the next step.



2. Create a Plant

Click on "Create Plant," fill in the necessary information in the dialog box, and click "Save." If the creation is successful, the app will automatically proceed to the next step. You can leave optional fields blank.

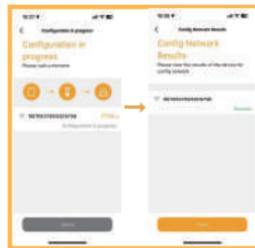


4. Network Configuration

Step 1: To configure the network, start by checking the network configuration status. Ensure that the Bluetooth and WiFi on your mobile phone are turned on, and make sure your mobile phone is connected to the correct WiFi network.



Step 3: Please wait a few minutes. Once the success message appears, click "Done."



Step 4: The battery information will be displayed after five minutes.



Step 2: On the Plant Overview page, tap the button in the top right corner, then select "Configure Network." Check the box next to the serial number, click "Start Configuration," choose the correct WiFi network, enter the WiFi password, and click "Start Configuration" again.

Note
 SC WiFi is not supported.
 Special characters (e.g., ! =) are not supported in the router name and password.

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

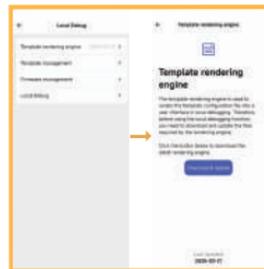
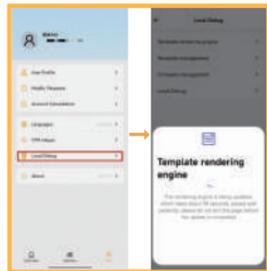
- 1) Make sure WLAN is ON.
- 2) Make sure WiFi is normal.
- 3) Make sure wireless router does not implement the white-black list.
- 4) Remove the special characters in Wi-Fi network.
- 5) Shorten the distance between the phone and device.
- 6) Try to connect to other Wi-Fi.

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.

Note: If there is no wireless network available, you can query and modify battery parameters and upgrade the battery through the Bluetooth local debugging function.

Local Debugging

1.Template engine rendering

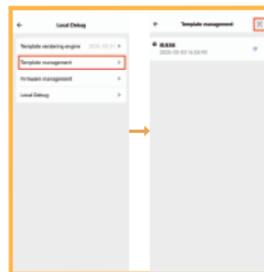


1. Access Local Debugging:
 Tap "Local Debugging" in the "My" interface at the bottom of the app.

2. Download Template Engine:
 When using the local debugging function for the first time, the app will automatically download the template rendering engine to load the template data.

3. Automatic Updates:
 The template engine will iterate over time, gaining more powerful functions. These updates will be applied automatically during subsequent uses.

2.Template Management

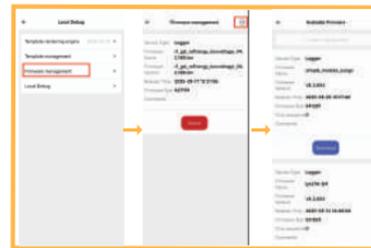


1. Automatic Template Download:
 When you first enter Local Debugging, the latest template will be automatically downloaded.

2. Update Template:
 Tap the template button to manually update and download the latest template.

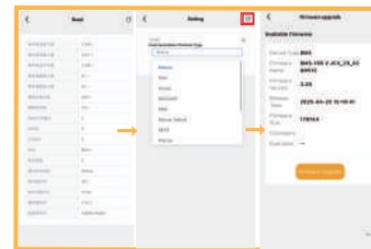
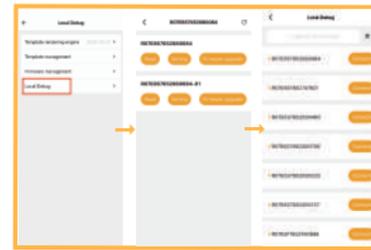
3. Download via QR Code:
 You can also download the template by scanning the template QR code located in the upper right corner.

3.Firmware Management



The firmware in the system can be downloaded through the firmware management

4.Local debugging



Connect the Device:
 Use Bluetooth to connect the device. Once the connection is successful, you'll be able to perform the following actions.

1. Read parameters
 You can read the device parameters to view its current settings and status.
2. Set parameters
 Modify the specified parameters to adjust the device's configuration as needed. For example, modify the communication protocol. After selecting the protocol, click the button in the upper right corner.
3. Upgrade the firmware
 Perform an OTA (Over-the-Air) firmware upgrade to update the device's software. The upgrade takes about 6 minutes.

You can still use Local Debugging even if the app is not logged in.

