



APP QUICK-START GUIDE

Download The App

Option 1: Scan the QR code below to go directly to the **"RICH SOLAR"** download page (supports iOS and Android).

(This QR code can also be found on the side of your device.)



iOS



Android

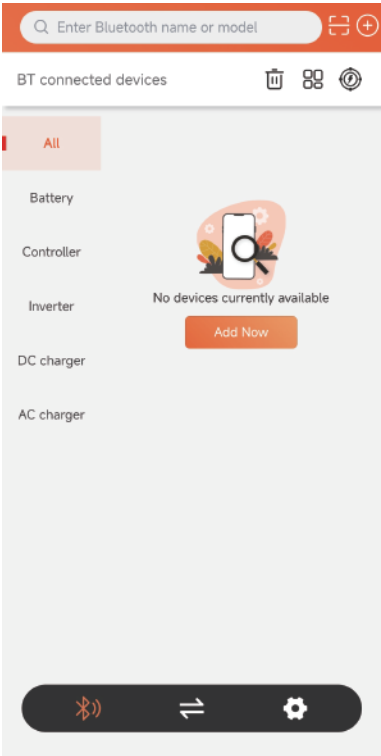
Option 2: Search for **"RICH SOLAR"** in the Google Play Store (Android) or App Store (iOS).

Pairing Your Device

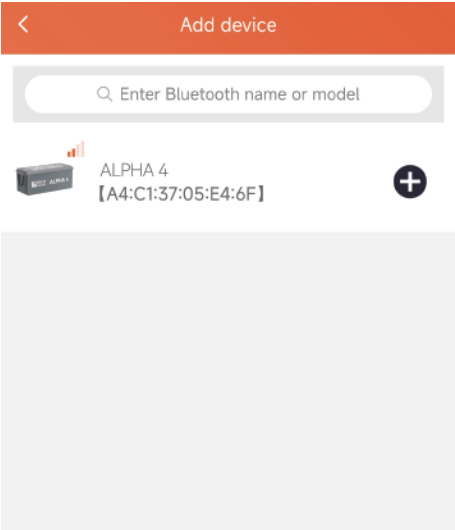
If you are using the battery for the first time, you first need to pair the battery with your phone using the **RICH SOLAR** app.

- 1. Ensure Bluetooth and Location Services are enabled on your phone.
- 2. On the Rich Solar app's home screen, which displays all devices, tap the "Add Now" icon in the center of the screen.

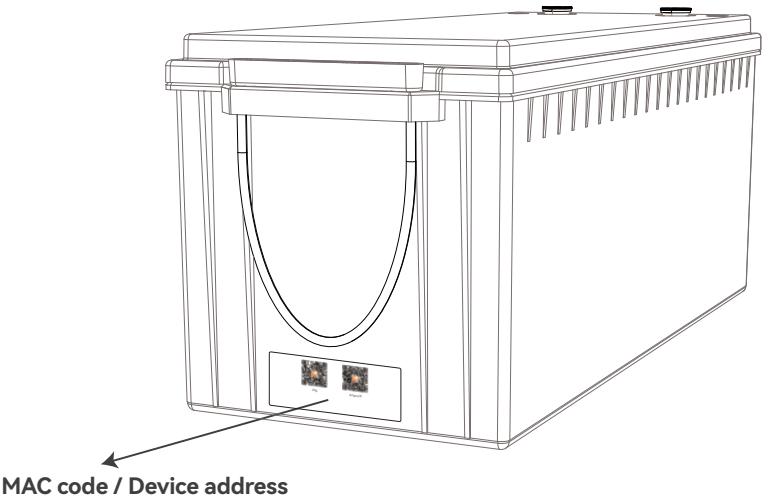
Note: The  icon in the upper left corner is used to access the "parallel connection".



3. When devices appear on the screen, select the device you wish to add. Be sure to select the one with the strongest signal.



4. You can also find the **"MAC Code / Device Address"** on the lower side of the device. This facilitates pairing when multiple devices are displayed on the screen.

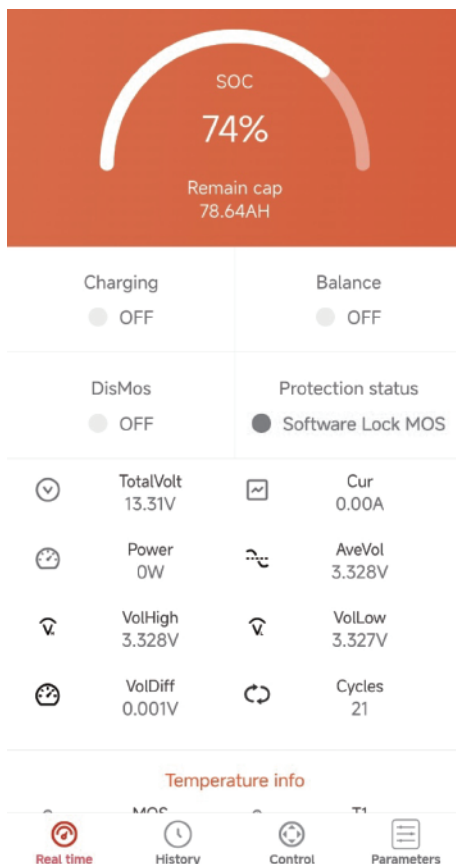


App Settings

To access the settings menu, on the Rich Solar app's home screen (which displays all devices), tap the  icon in the lower right corner, then navigate to the "App Settings" page. Here, you can change the app language, temperature unit, etc.

App Operation

If you are using the **RICH SOLAR** app for the first time, you will land on the main screen shown below. There are four main navigation tabs at the bottom: Real-time, History, Control, and Parameters. The following sections describe each tab.



Real-time Tab

This tab provides real-time monitoring and a clear overview of the battery's operating status.

Key Status Indicators:

- **SOC (State of Charge):** Displays the current battery charge level.
- **Remaining Capacity:** Shows the usable energy stored in the battery.
- **Charge Status:** OFF -- Indicates the battery is not charging.
- **Balance Status:** OFF -- Indicates the cell voltage balancing function is not active.
- **Discharge MOSFET (DisMos) Status:** OFF -- Indicates the discharge circuit is open.
- **Protection Status:** Software Lock MOS -- Indicates the MOSFET is locked by software for safety.

Electrical Parameters:

- **Total Voltage:** The total voltage of the battery pack.
- **Current (Cur):** 0.00 A -- No current detected.
- **Power:** 0 W -- No charge or discharge power.
- **Average Cell Voltage (AveVol).**
- **Highest Cell Voltage (VolHigh).**
- **Lowest Cell Voltage (VolLow).**
- **Voltage Difference (VolDiff):** Indicates the balance between cells.
- **Cycle Count:** The total number of charge and discharge cycles.

Temperature Readings:

- **MOS (MOSFET Temperature), T1, T2, T3.**

Individual Cell Voltages:

- **Cell 1 --- Cell 4:** Displays the voltage of each cell independently.

History Tab

This tab provides a comprehensive, real-time overview of battery performance and status through charts. It displays multiple synchronized charts for precise monitoring and in-depth analysis.

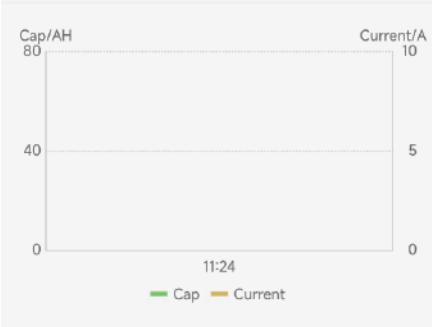
Voltage & Current Chart:

- **Voltage (V):** Monitors cell voltage levels, including Average Voltage (AveVol), Highest Cell Voltage (VolHigh), and Lowest Cell Voltage (VolLow).
- **Current (A):** Tracks battery charge and discharge current.



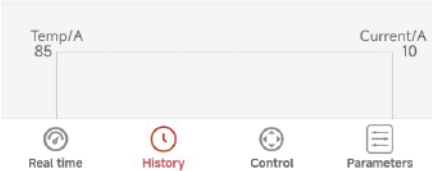
Capacity & Current Chart:

- **Capacity (Ah):** Shows the battery's Remaining Capacity (Cap).
- **Current (A):** Provides corresponding current trends for comparison.



Temperature & Current Chart:

- **Temperature (°F):** Displays real-time cell temperature variations.
- **Current (A):** Facilitates correlation analysis between current flow and temperature behavior.



Control Tab

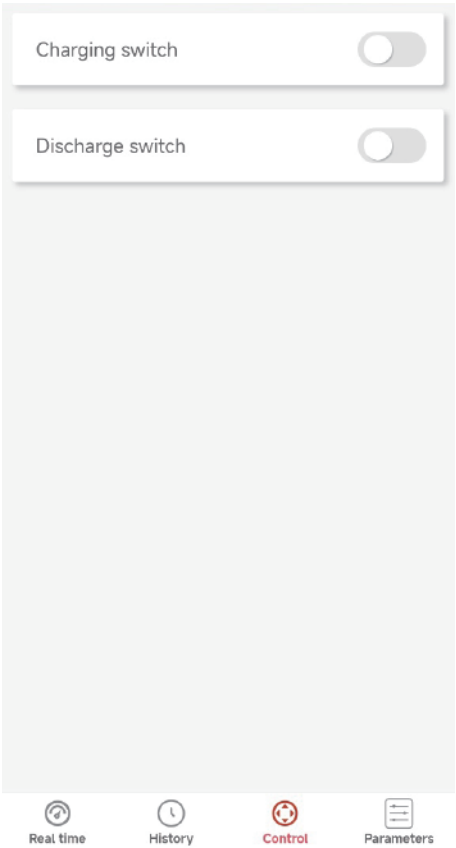
This tab allows users to manually enable or disable the charging and discharging functions of the battery system.

Charge Switch:

- Turn ON to allow charging. Turn OFF to block all input current.

Discharge Switch:

- Turn ON to supply power to loads. Turn OFF to stop output for safety and maintenance purposes.



Parameters Tab

This tab displays basic product information and protection counts.

< ALPHA 4		
	Basic info	>
	Protection counts	>

The Protection Count function provides a complete overview of all safety protection events. This page is read-only and records the total number of times each protection mechanism has been triggered.

< Protection counts	
Short circuit protection count	0
Charging overcurrent count	0
Discharge overcurrent count	0
Cell overvoltage count	0
Charging high temperature count	0
Charging low temperature count	0
Discharge high temperature count	0
Discharge low temperature count	0
Pack overvoltage count	0
Pack undervoltage count	0
System restart count	0

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