Quick-Start Guide

Download The App

Option 1: Scan the QR code below to be taken directly to the "**RICH SOLAR**" download page (iOS and Android).
(This QR code can also be found on the side of your device.)

iOS

Android

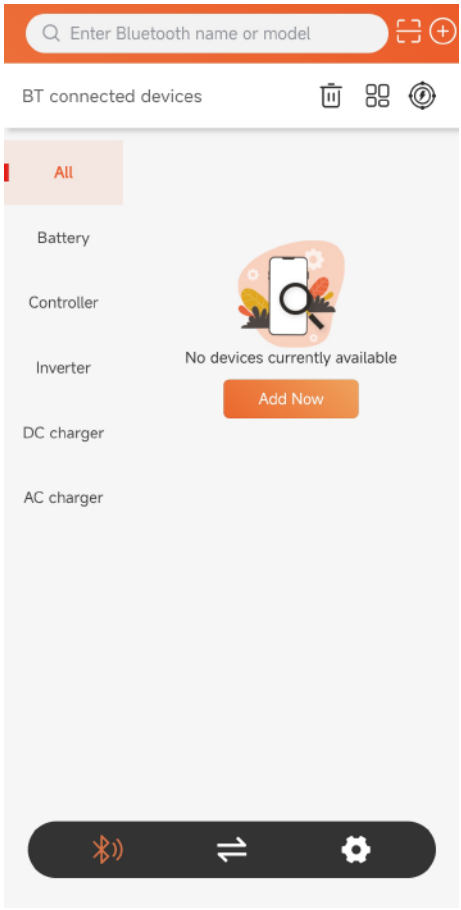
Option 2: Search for "**RICH SOLAR**" on the Google Play Store (Android) or App Store (iOS).

Pairing Your Device

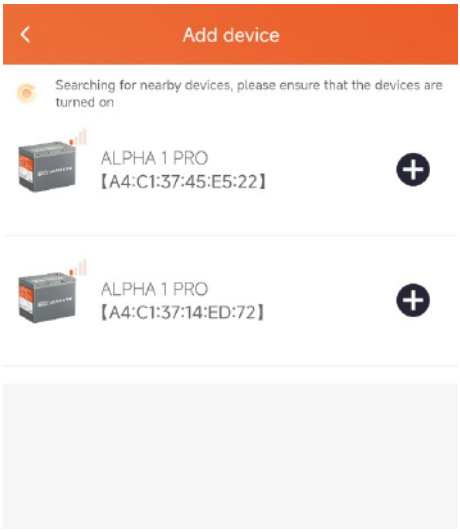
If this is your first time using the battery, you'll first need to pair the battery with your phone using the **RICH SOLAR** app.

1. Ensure Bluetooth and Location Services are enabled on your phone and your battery is turned on.

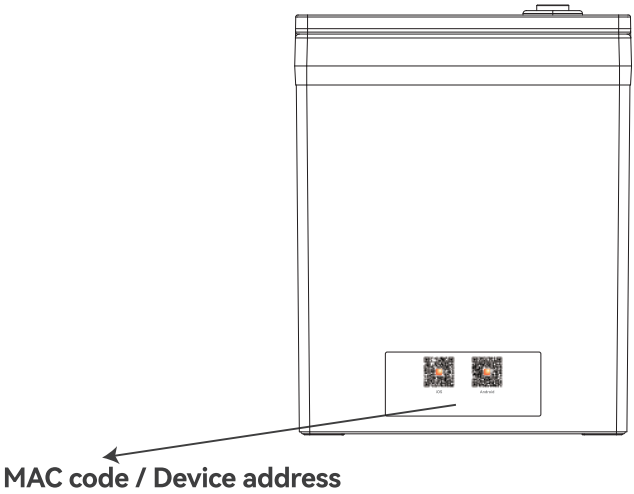
2. From the homepage of all devices in Rich Solar, click the "Add Now" icon at the center of the screen.



3. Select the device to add once it shows up on your screen, always select one with the strongest signal (red icon in upper-right corner).



4. You also can find the "**MAC code / MAC device**" address under the cover which will be convenient for pairing your device when multiple devices shown in your screen.

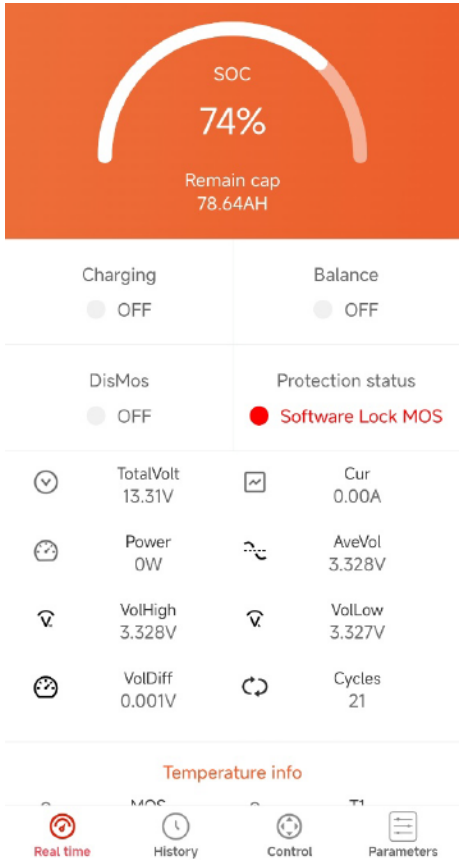


App Settings

To get to the Settings menu from homepage of all devices in Rich Solar, click the  icon on the bottom right, then go into the App Settings page. From here you can change the app language, temperature unit, etc.

App Operation

If this is your first time using the **RICH SOLAR** app, you will be brought to the main screen shown below. There are three tabs – **Real-time**, **History** and **Parameters** at the bottom – Each tab will be explained in the following sections.



Real-time Tab

From here, you can see the total battery charge percentage and the current charging stage. Further explanation of each charging stage can be seen below:

Soft-Start: Low-current charging used to gently recharge flat batteries without causing damage. (0~25%)

CC (Constant Current or "Bulk" charging): Provides steady current for the main part of the charging cycle. (25%–50%)

CV (Constant Voltage or "Absorption" charging): The charging rate slows as the battery nears full capacity. (50%–75%)

Float: A maintenance mode that keeps a fully charged battery at optimal voltage without overcharging. (75%–100%)

If solar power is lost (e.g., at sunsets or the panel is manually disconnected), the system will display the current battery state of charge.

Charging Status – Solar shows real-time properties of the system's solar panels (if connected):
Voltage: Solar panel output voltage
Current: Solar panel output current
Power: Solar panel output power (Voltage * Current)
Device Temperature: Shows the internal temperature of the battery

Charging Status – Battery shows real-time properties of the batteries (if connected):
Voltage: Battery voltage
Current: Battery charging current
System Voltage: Indicates 12V or 24V system
Battery Temperature: Display the temperature at the battery terminal (if temp-sensor connected)

There are two additional tabs **– "History" and "Parameters"** on the screen.

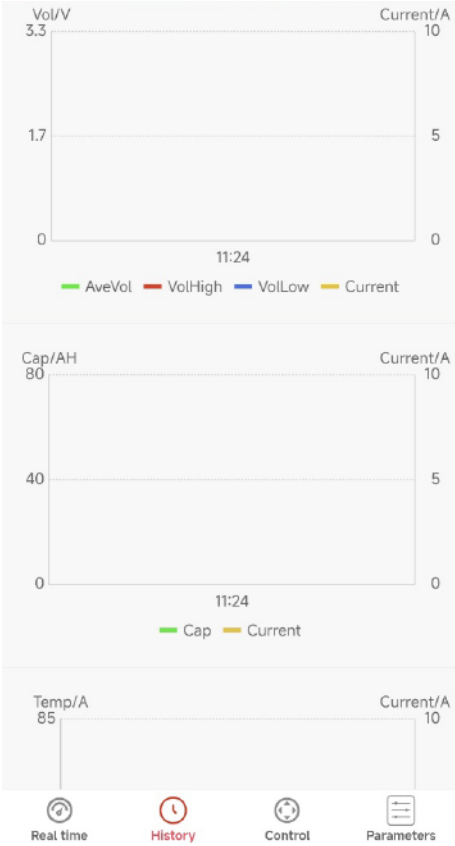
History Tab

The tab shows previous power generation over periods from 1 month up to 12 months.

“Today Electricity Generation”: Total charge delivered to the battery by the solar system today

“Today Power Generation Energy”: Total solar energy generated today

You can view graphs showing the history of electricity generated, battery acceptance, or solar power generated and delivered over the past 30 days and 12 months.

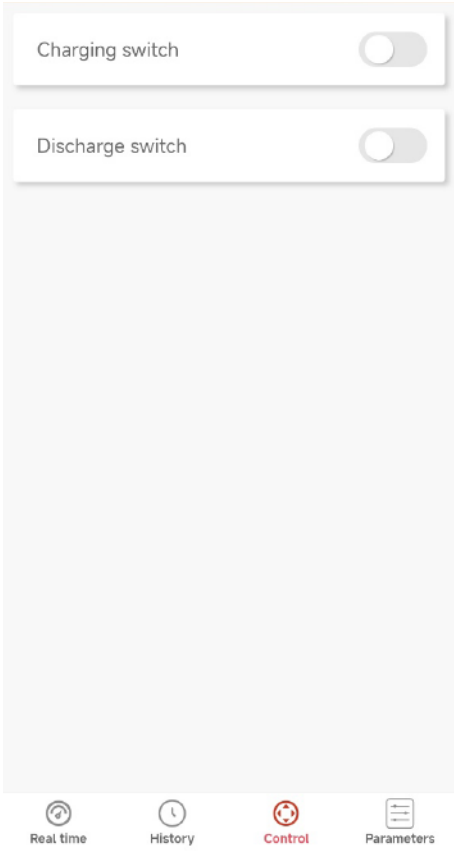


Parameters Tab

Here you can adjust battery charging settings, select battery type, and perform a factory reset. All of these settings are explained below:

Battery Type: Used to select your battery chemistry. The app supports the following battery type templates and allows custom templates.

(The other charging parameters auto-adjust based on your selected battery type, so be sure to select this first.)



System Voltage: Nominal battery voltage of your system. (12V/24V)

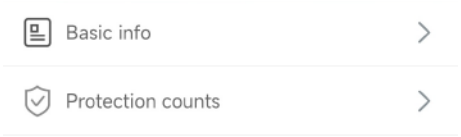
Max Charge Current: Places an upper limit on the charging current of a battery.

Balance: A setting that de-sulfates flooded lead acid batteries by periodically overcharging them. Only available for “Wet”, “Calcium”, and “Custom” battery types. (On/Off)

Absorption Voltage: Set a target voltage for the absorption (CV) charging stage.

Float Charging Voltage: Set a target voltage for battery maintenance charge.

Recharge Voltage: Set a disconnecting voltage to switch into Bulk charging.

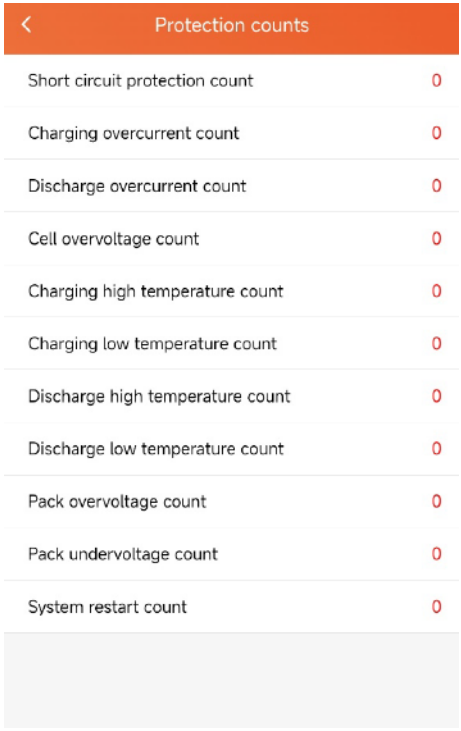


To reset your battery to its default settings and clear your charging history in the app, tap the **“Factory Data Reset”** icon on the screen.

Error Notification

You can track any important errors or alarm information on the main screen of the app. Once an error occurs, Rich Solar app sends push notifications that appears on the battery's main screen.

Here is an example of an alarm you may be notified:



For an extensive list of error codes, please refer to the error code table in the full user manual.

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