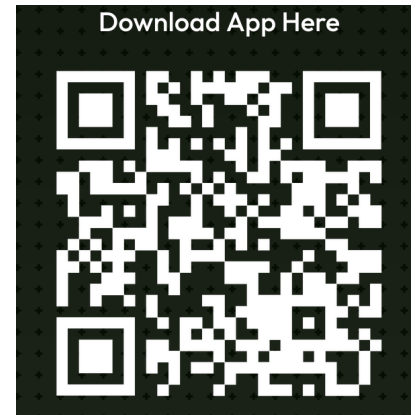




## LiFeBlue Ultimus App User Guide v1.5

**This manual will instruct you on the use of the Ultimus App by LiFeBlue.**

First, download and install the LiFeBlue Ultimus App from the Apple Store or Google Play. Or, scan the QR code.



When you open the App, there are 4 different menu items:

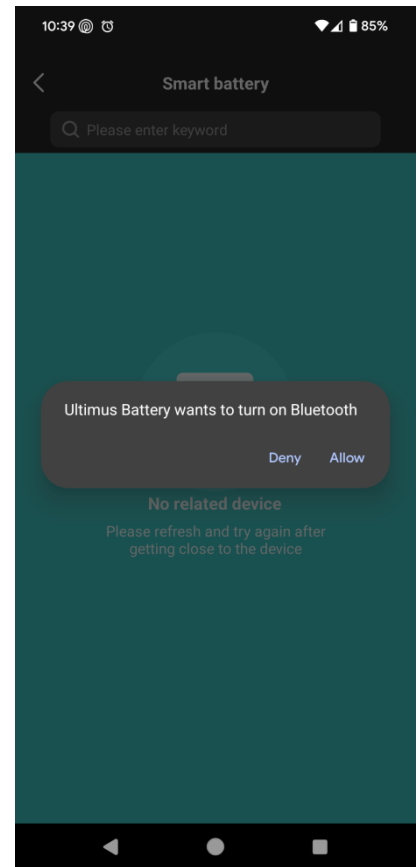
1. **Smart battery:** connect with any LiFeBlue battery (Ultimus batteries display extra data)
2. **Air connection:** group up to 4 LiFeBlue batteries together in parallel or series
3. **Wired connection:** group up to 16 ULTIMUS batteries together in parallel, or 4 series connections.
4. **T-BOX:** used to configure the T-Box protocol converter.

|                         |                         |
|-------------------------|-------------------------|
| <a href="#">Page 2</a>  | Setup Smart battery     |
| <a href="#">Page 3</a>  | Firmware Upgrade        |
| <a href="#">Page 6</a>  | Air Connection          |
| <a href="#">Page 8</a>  | Wired Connection        |
| <a href="#">Page 13</a> | Delete Network Group    |
| <a href="#">Page 15</a> | Network Troubleshooting |

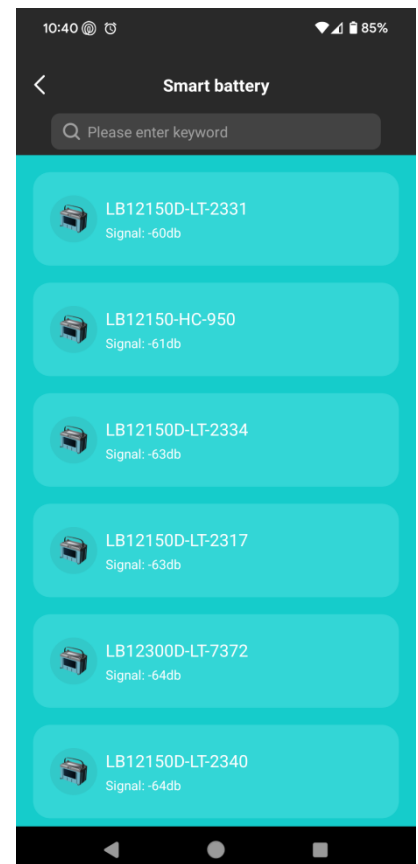


## Smart battery

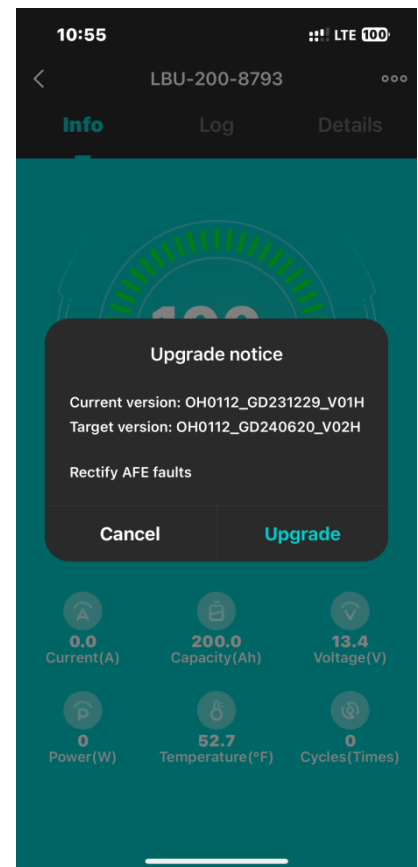
1. Open the Ultimus app and select “Smart battery”
  - If prompted to turn on Bluetooth
    - Android: answer “Allow”
    - iPhone:
      - Click Cancel
      - Open settings
      - Manually turn on Bluetooth
      - Return to the LiFeBlue app
  - Android users may also receive a prompt to turn on Location setting.
    - LiFeBlue is NOT tracking your location or data.
  - The list of LiFeBlue batteries should display



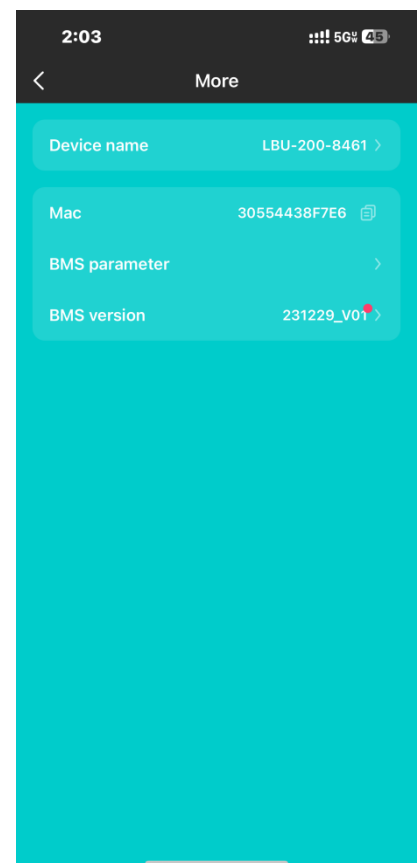
2. Touch the battery you wish to view
  - If prompted to Confirm, move closer to the battery and try again.



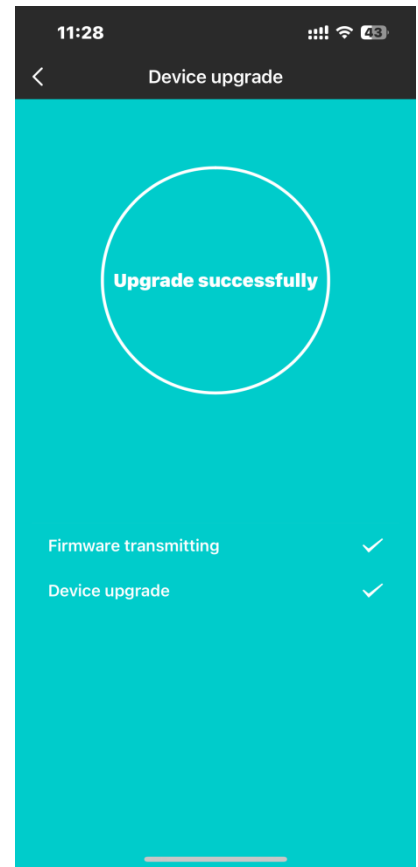
- If a firmware upgrade is available, an Upgrade notice will appear.
- The upgrade uses your phone's WiFi or cellular connection to pull the upgrade files from the server, then uses your phone's Bluetooth to send the files to the battery.
- The upgrade may take several minutes to complete.
- Pressing Upgrade will begin the process.



- Pressing Cancel will cause a RED dot to be present on the "More" screen on the "BMS version" line.
- Touching the RED dot will initiate the upgrade process.
- The upgrade prompt and red dot will appear until the upgrade is performed.

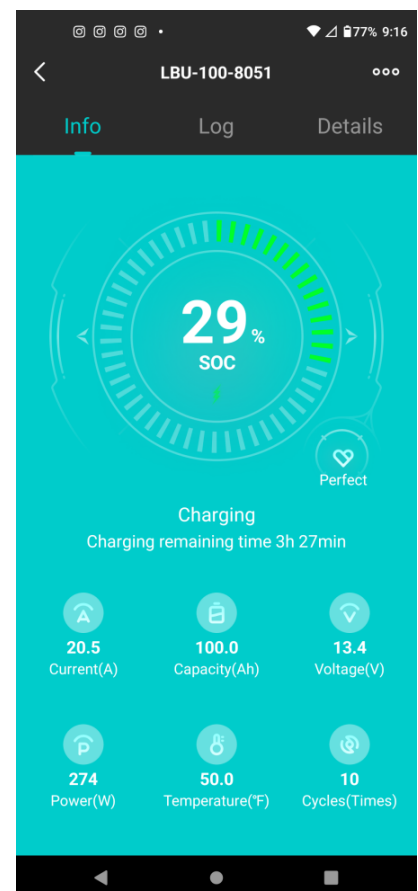


- “Upgrade successfully” will appear after the update is complete.



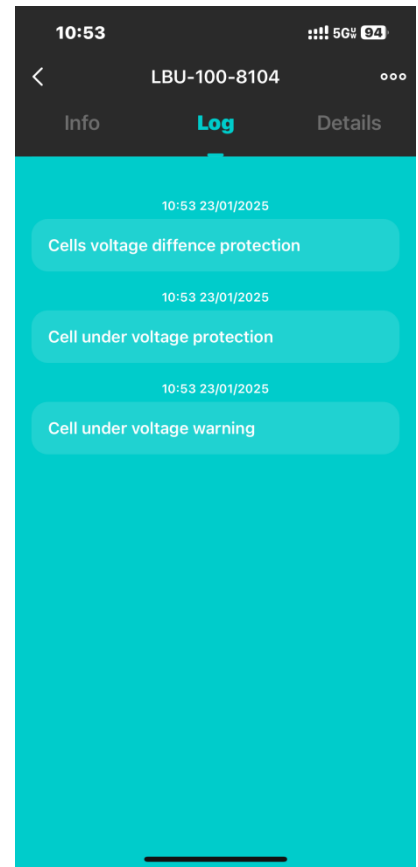
3. Once connected, the screen will display

- Battery name
- SOC (State-of-Charge)
- Health (usually “Perfect”)
- Status (Idle, Charging, or Discharging)
- Current
- Capacity
- Voltage
- Power (W)
- Temperature
- Cycles (accumulates over the life of the battery)



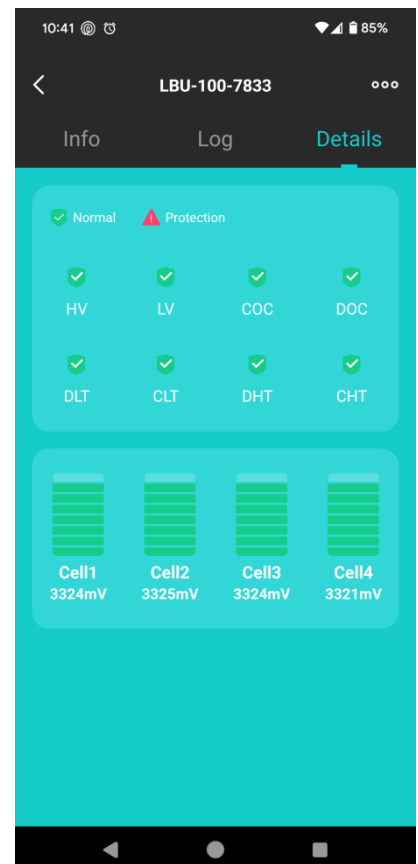
4. Swiping left or touching “Log” displays current messages about the operation of your battery.

Example image on the right shows a battery that was discharged fully, then charged.



5. Swiping left again or touching “Details” displays the 4 individual cells data as well as any protection triggers

- HV: high voltage
- LV: low voltage
- COC: Charge Over Current
- DOC: Discharge Over Current
- DLT: Discharge Low Temp
- CLT: Charge Low Temp
- DHT: Discharge High Temp
- CHT: Charge High Temp



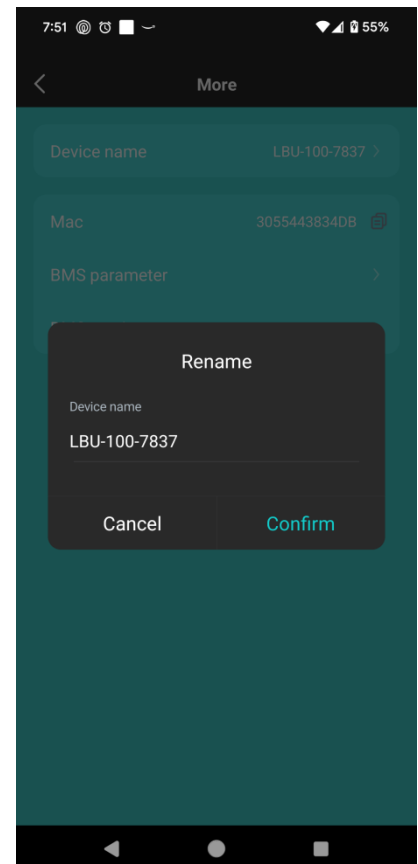
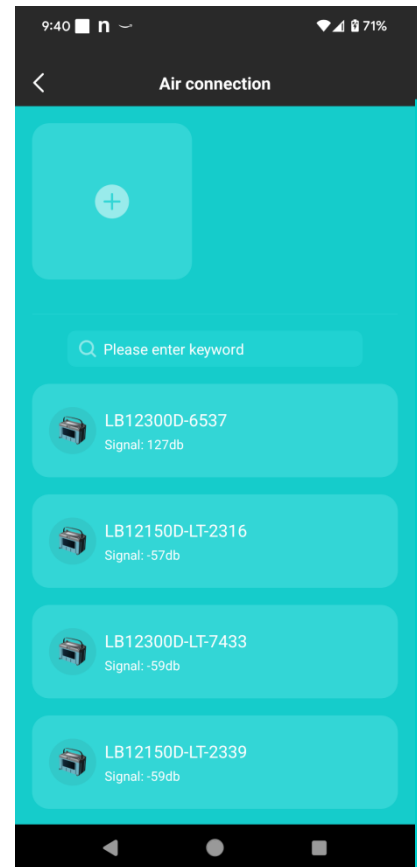
## **Air connection**

The ULTIMUS App supports networking data from up to 4 LiFeBlue batteries using Air Connection. All LiFeBlue models are compatible.

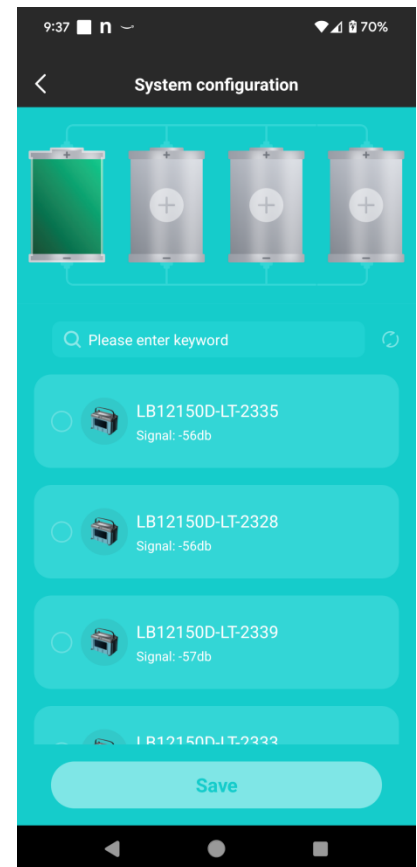
Setup instructions:

1. Open the UltimUS App and select “Air connection”.
2. Press the + (plus) to create a new network. You can create 2 separate networks.
3. Select “System Name”. Press “Enter system name” and input the name you chose.
4. Press “Confirm”.

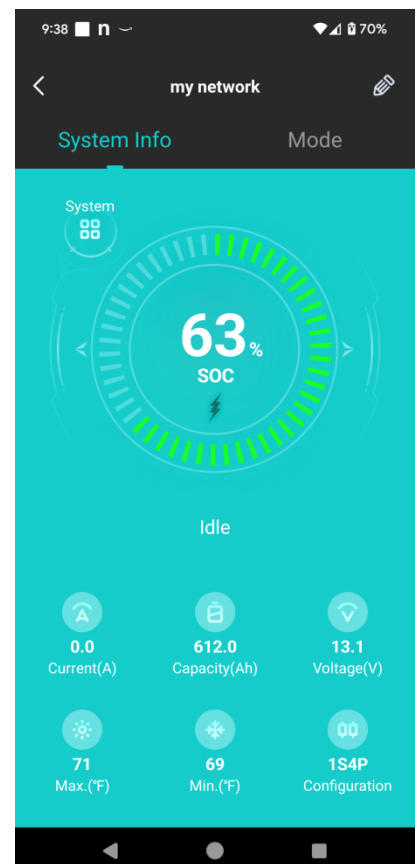
5. Verify “Single Battery Voltage” is set to “12V”.
6. Select “Configuration”. At the bottom of the screen, scroll up or down to select
  - Parallel for a 12V system.
  - Series for a 24, 36, or 48 Volt system.
  - Press Confirm.
7. Select “Device Number”.
  - Scroll up or down to select 2, 3, or 4 batteries.
  - Press confirm.
8. Press “Next step”.



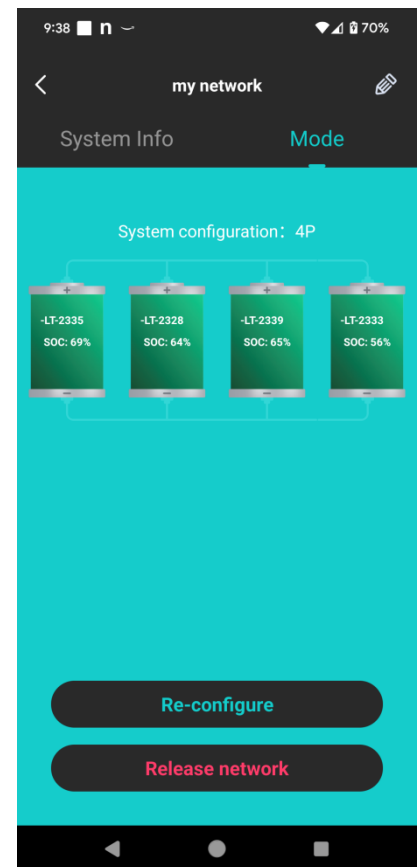
9. Select a battery from the list showing. It will populate to the first green cell at top of page.
10. Press the + (plus) in the next gray cell. It turns green. Select your next battery from the list.
11. Repeat this process for batteries 3 and 4, if present.
12. When done, press "Save".



13. The new network page will open to display combined data from all networked batteries. It may take several seconds for the phone to collect and combine the batteries data.



14. Swiping left or pressing Mode displays the SOC of each battery in the group
  - Touching a battery from this screen will display additional battery data.
15. To delete this network configuration:
  - Press “Release network”.
  - Press “Confirm”.
16. To rename the group
  - Press the pencil icon to the right of the group name.
  - The password is 1234
17. If 2 groups are configured, use the slider button to activate reporting for the desired group.



### **Wired connection – ULTIMUS batteries only (LBU.xxx)**

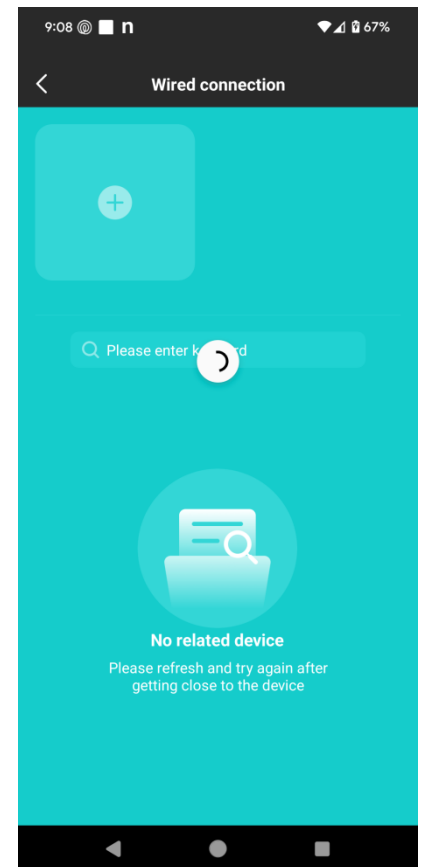
1. Start with all batteries turned off.
2. One battery will be the Master and collect data from the others.
3. Using the CAN bus cables included with each ULTIMUS battery, connect the LINK OUT of the Master battery to the LINK IN of the next battery.
4. Connect the remaining ULTIMUS batteries to the group using the provided cables and ports.
  - Connect battery 1 (Master) LINK OUT to battery 2 LINK IN.
  - Connect battery 2 LINK OUT to battery 3 LINK IN.
  - Continue until all batteries are connected.
  - Up to 16 batteries can be connected in parallel, 4 batteries in series.
  - The last battery will not have anything connected to LINK OUT.



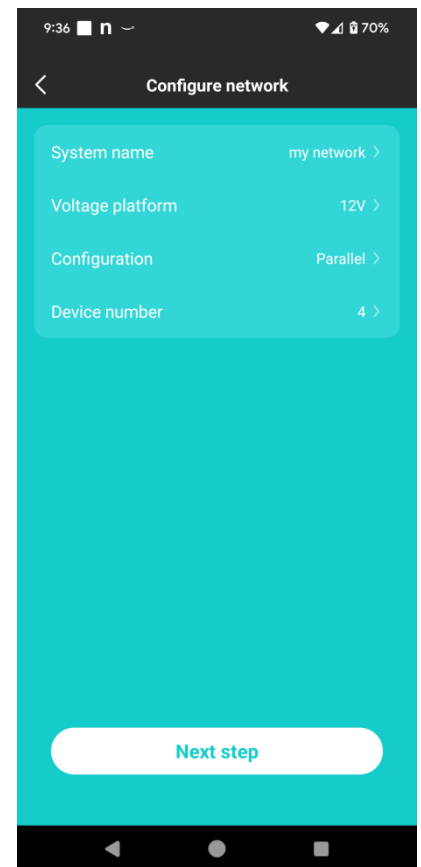
5. Turn ON all batteries, wait about 20 seconds before moving to the next step.
6. On the Master battery, press the RUN/ALM button for 11 seconds.
  - LED's will scroll from low to high for 1 to 2 minutes while the network is being configured.



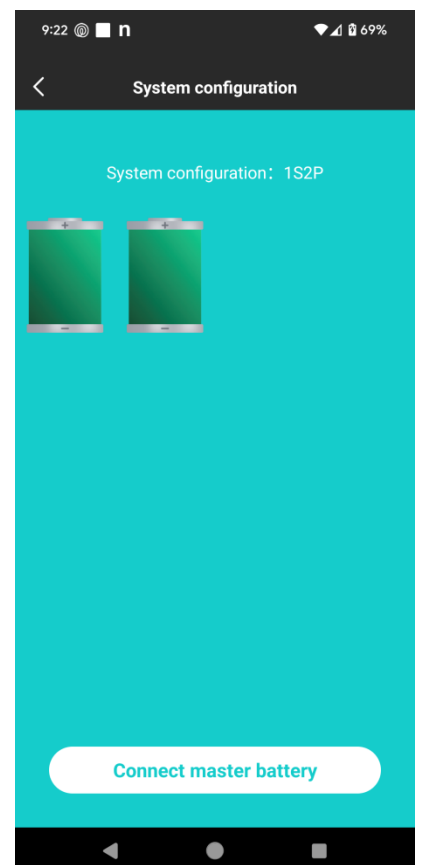
7. Open the Ultimus App and select "Wired connection".
8. Press the "+" to create a new network.
  - Select "System Name".
  - Press "Enter system name" and enter the name you chose.
  - Press "Confirm".



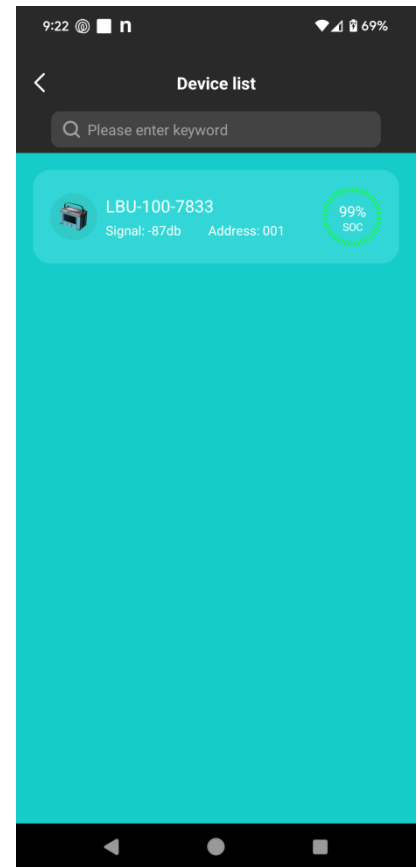
9. Verify "Single Battery Voltage" is set to "12V". Adjust if incorrect.
10. If you are connecting in series, select "Series" and scroll up or down to select how many batteries are in series, 1, 2, 3, or 4 (12V, 24V, 36V, 48V). Then press "Confirm".
11. If you are connecting in parallel (12V), Select "Parallel", scroll up or down to select from 2 to 16 batteries connected in parallel, then press "Confirm".
12. Press "Next step".



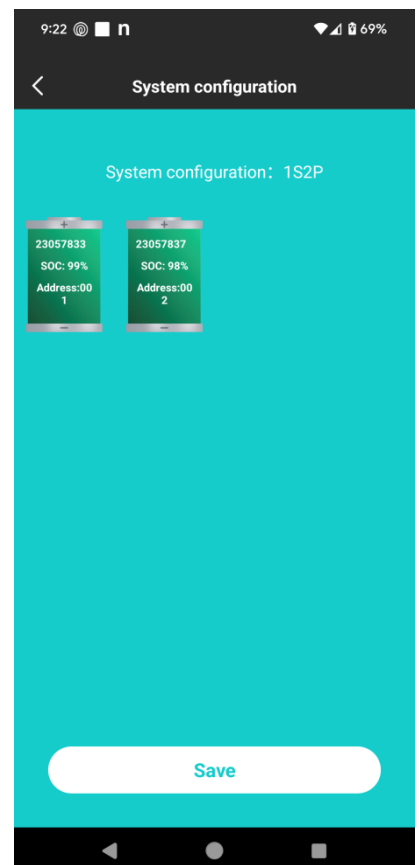
13. Press "Connect master battery".



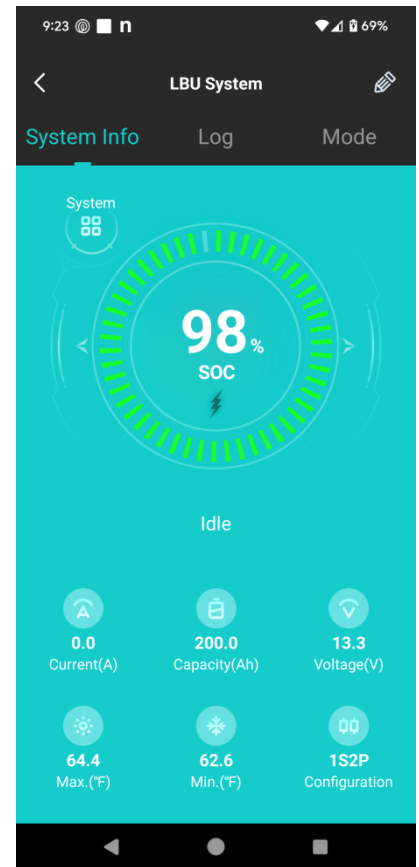
14. The Master battery should be the only battery listed.
  - If multiple wired systems are present, then additional Master batteries may display.
15. Select the Master battery for your system.



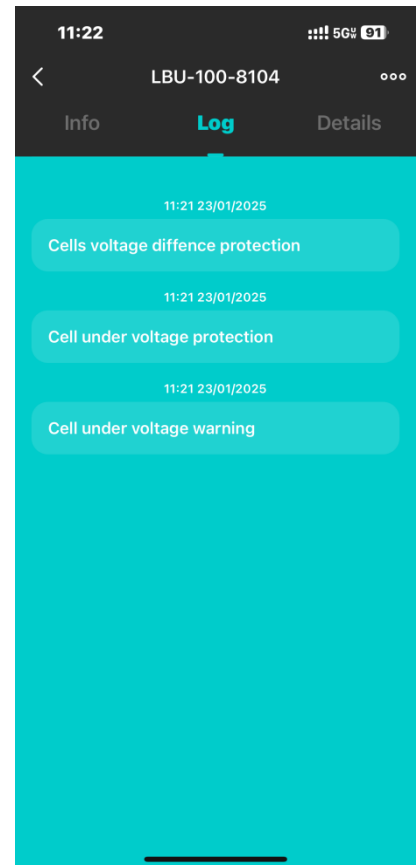
16. After a few seconds, all batteries in the system will be displayed.
17. Press "Save".



18. System Info will display cumulative data for the group.
- If the configuration is incorrect, you may receive the message “Remind Battery numbers mismatch Confirm”.
    - Press “Confirm”.
    - Press the back arrow.
    - Press the back arrow.
    - Press “Confirm”.
    - Return to Step 8 to create the network in the app.



19. Swiping left or pressing “Log” displays all current events with time and date.

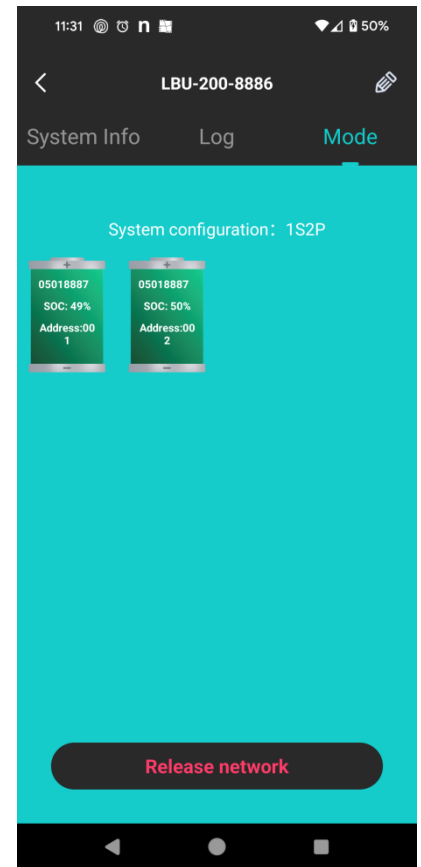


20. Swiping left again or pressing Mode displays the SOC of each battery in the group.

21. **DO NOT** press “Release network”. This will undo the current network setup. Use Release Network if you are starting over to trouble shoot the network. See page 16, Troubleshooting.

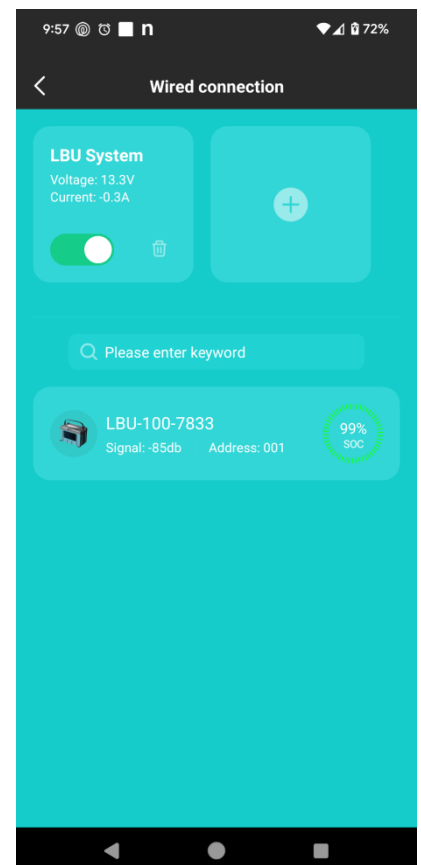
22. To rename the group, press the pencil in the upper right corner.

- Password is 1234
- Backspace the current name.
- Input desired name.
- Press “Confirm”.

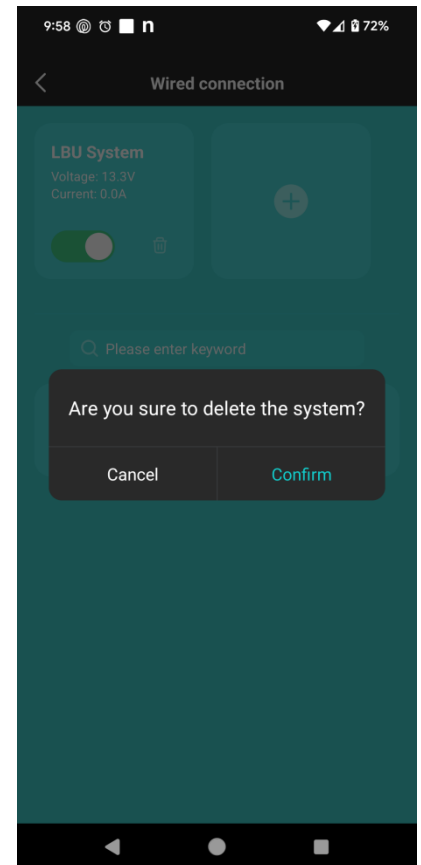


23. To delete the group

- Navigate to the initial Wired connection screen.
- Press the trash can in the box with the group name to be deleted.

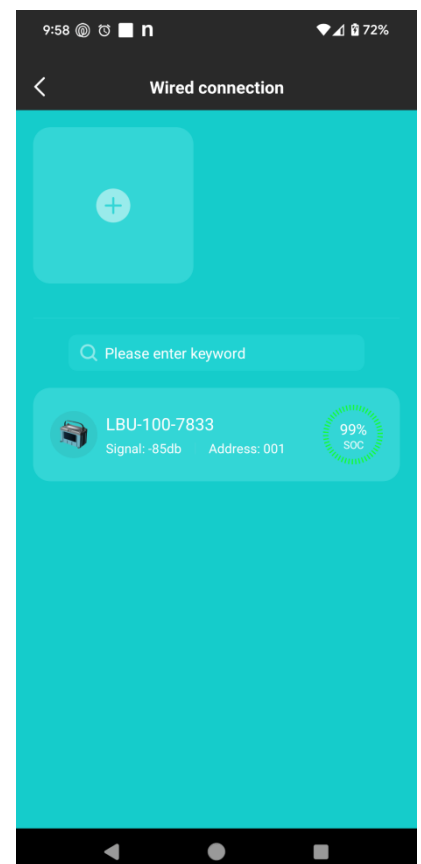


- Press “Confirm”.



- NOTE: The batteries are still networked, they are just no longer in an assigned group in the App.

24. Additional groups can be added as needed.



## **Troubleshooting**

If network difficulty happens, it is best to un-network the battery to original condition and start over.

1. To return batteries to default non-networked state:

- On the Master battery, press the RUN/ALM button for 6 seconds.
- When the LED's begin flashing on and off, turn the battery power switch OFF.
- Wait about 30 seconds, then power the Master battery ON.
- Perform the Wired connection steps again. (See page 8)

## **Accessories**

LBU CAN bus cables are available if you need to separate battery location up to 2 meters.

LBU to Victron Cerbo or Ekrano GX CAN cables are available if you need to separate battery location up to 2 meters.

T-Mon is wall mount touch screen monitor that connects to the battery via CAN bus cable.

Visit [www.LiFeBlueBattery.com](http://www.LiFeBlueBattery.com) or call for order information.

