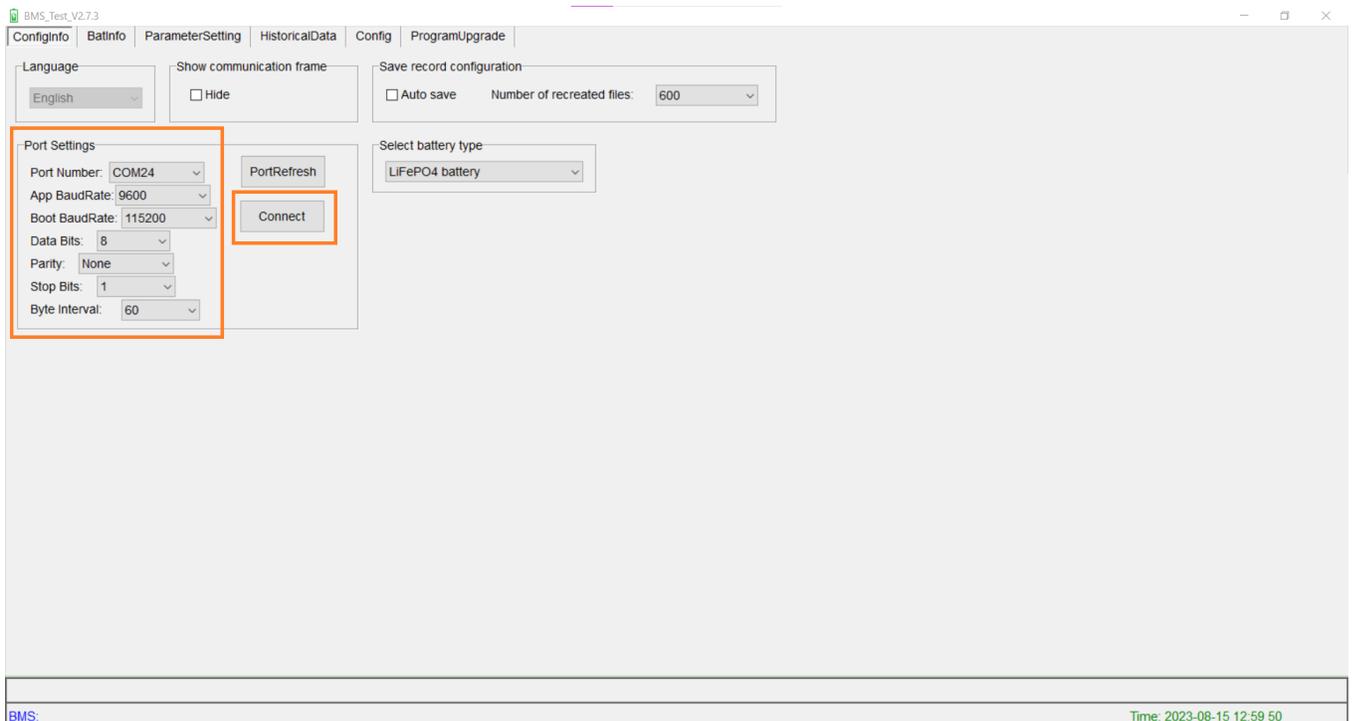




Guide on updating a EG4 Lifepower4 battery

1. Confirm that the cable you are using is an USB-A RS485 to RJ45 that is pinned out for 1,2 (1-B,2-A) on the RJ45 connector. Now plug in the cable from your computer to the RS485 RJ45 jack on the lifepower4 battery.
2. Set the dip switch to ID:0 and power on the battery. Remove any other CAT patch cables plugged into the battery if in parallel with other batteries.
3. Open the BMS Test application
4. On the Config-info tab, make sure the Port Number: is set to the correct Com # relating to the RS-485 cable, next press the connect button under the port settings, at the very bottom the green port opened successfully! status will flash.



- Click on the Program Upgrade tab, Under the upgrade operation box, change the device address to ID:0.

BMS_Test_V2.7.3

ConfigInfo | BatInfo | ParameterSetting | HistoricalData | Config | **ProgramUpgrade**

Password: Upgrade progress: Time consuming: Time consuming:

File: Load upgrade program

Upgrade file information:

File size: Total packet number:
Number of bytes per packet: Current package number:
Project subdivision number:
Hardware version number:

Upgrade operation:

Device Type: 10
 Device address: 0
Upgrade start

Boot information:

Boot version number:
Hardware version number:
Project subdivision number:
Get Boot information

Status:

BMS: Time: 2023-08-15 13:06:56

- Now click Get Boot Information

WARNING! When getting boot information, the battery cannot be charging or discharging, Get Boot Information will fail!

BMS_Test_V2.7.3

ConfigInfo | BatInfo | ParameterSetting | HistoricalData | Config | **ProgramUpgrade**

Password: Upgrade progress: Time consuming: Time consuming:

File: Load upgrade program

Upgrade file information:

File size: Total packet number:
Number of bytes per packet: Current package number:
Project subdivision number:
Hardware version number:

Upgrade operation:

Device Type: 10
 Device address: 0
Upgrade start

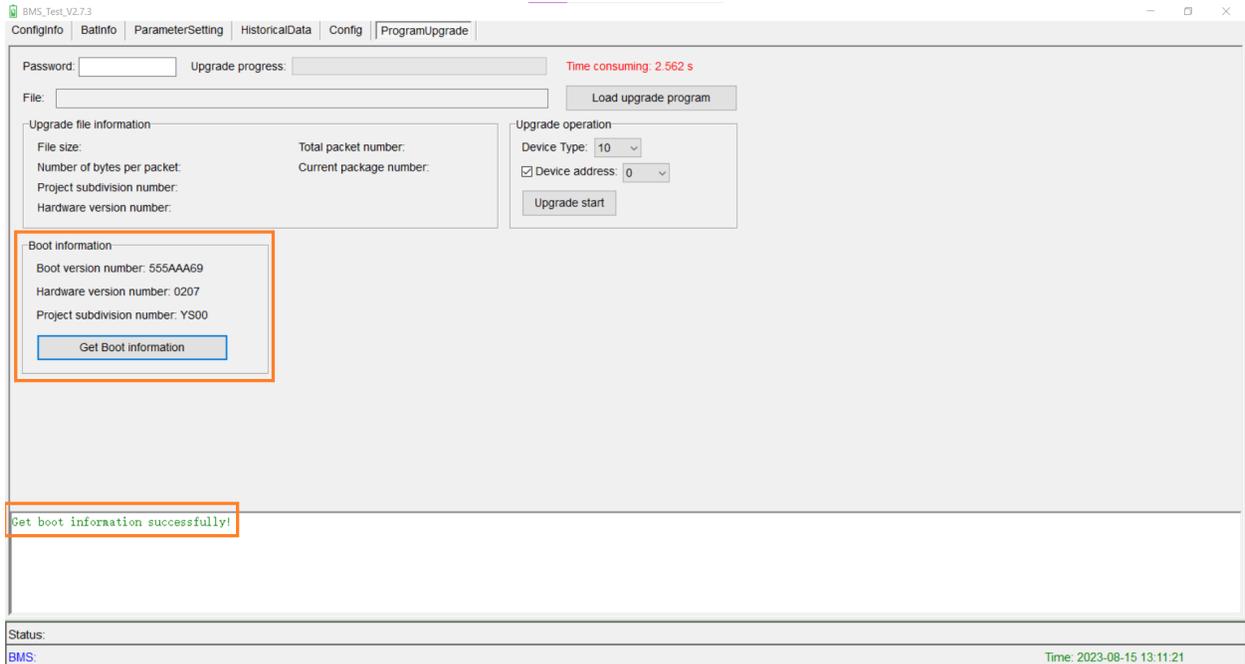
Boot information:

Boot version number:
Hardware version number:
Project subdivision number:
Get Boot information

Status:

BMS: Time: 2023-08-15 13:06:56

7. After clicking Get Boot Information, you have now populated the boot information box. Get boot information successfully! will be listed in the prompt below. The hardware version number will be used to determine which update will be applied to the Lifepower4 battery. The only 2 hardware versions are 0207, 0205.



8. Now click load upgrade program.

BMS_Test_V2.7.3

ConfigInfo | BatInfo | ParameterSetting | HistoricalData | Config | ProgramUpgrade

Password: Upgrade progress: Time consuming: 2.562 s

File: **Load upgrade program**

Upgrade file information

File size: Total packet number:
Number of bytes per packet: Current package number:
Project subdivision number:
Hardware version number:

Upgrade operation

Device Type: 10
 Device address: 0
Upgrade start

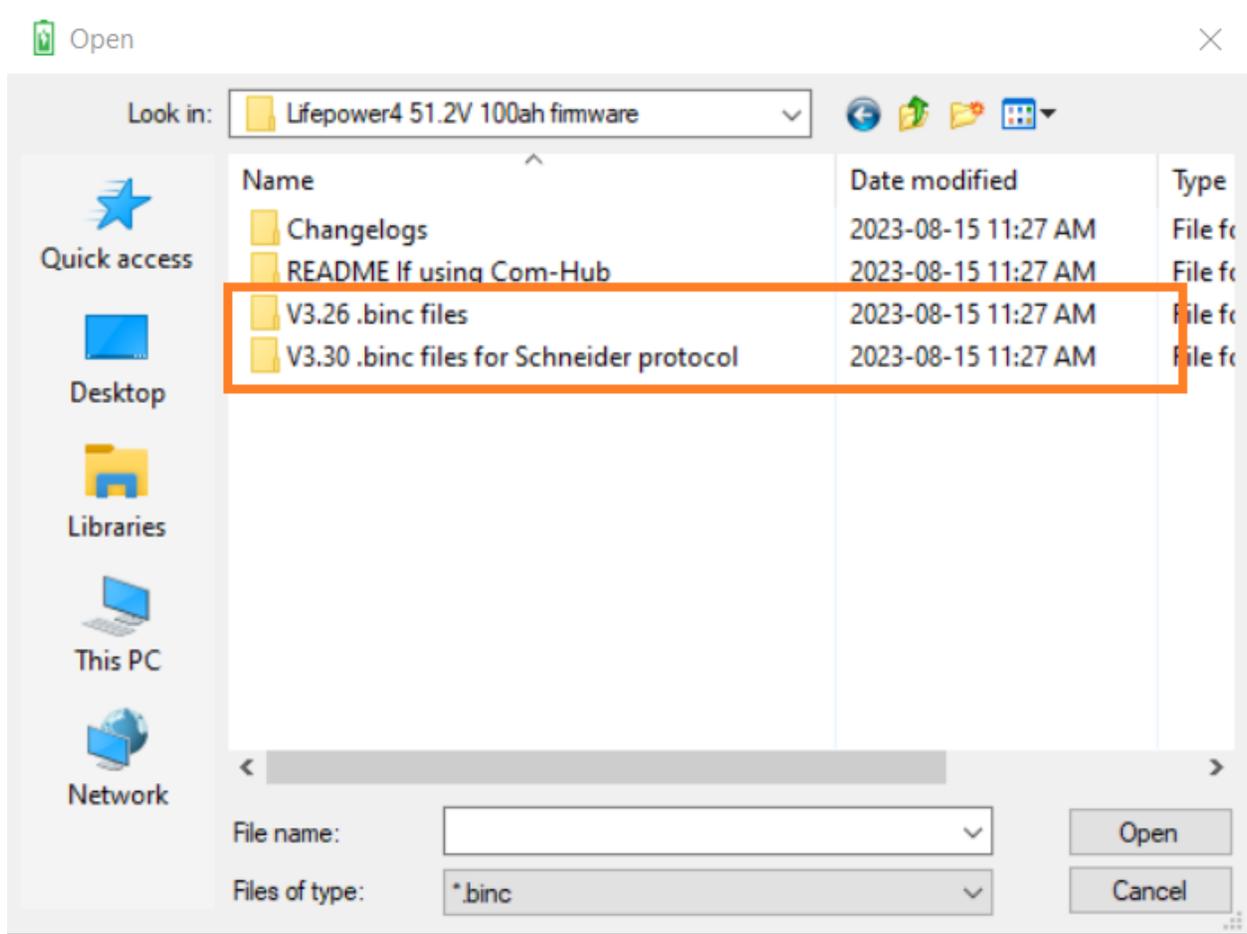
Boot information

Boot version number: 555AAA69
Hardware version number: 0207
Project subdivision number: YS00
Get Boot information

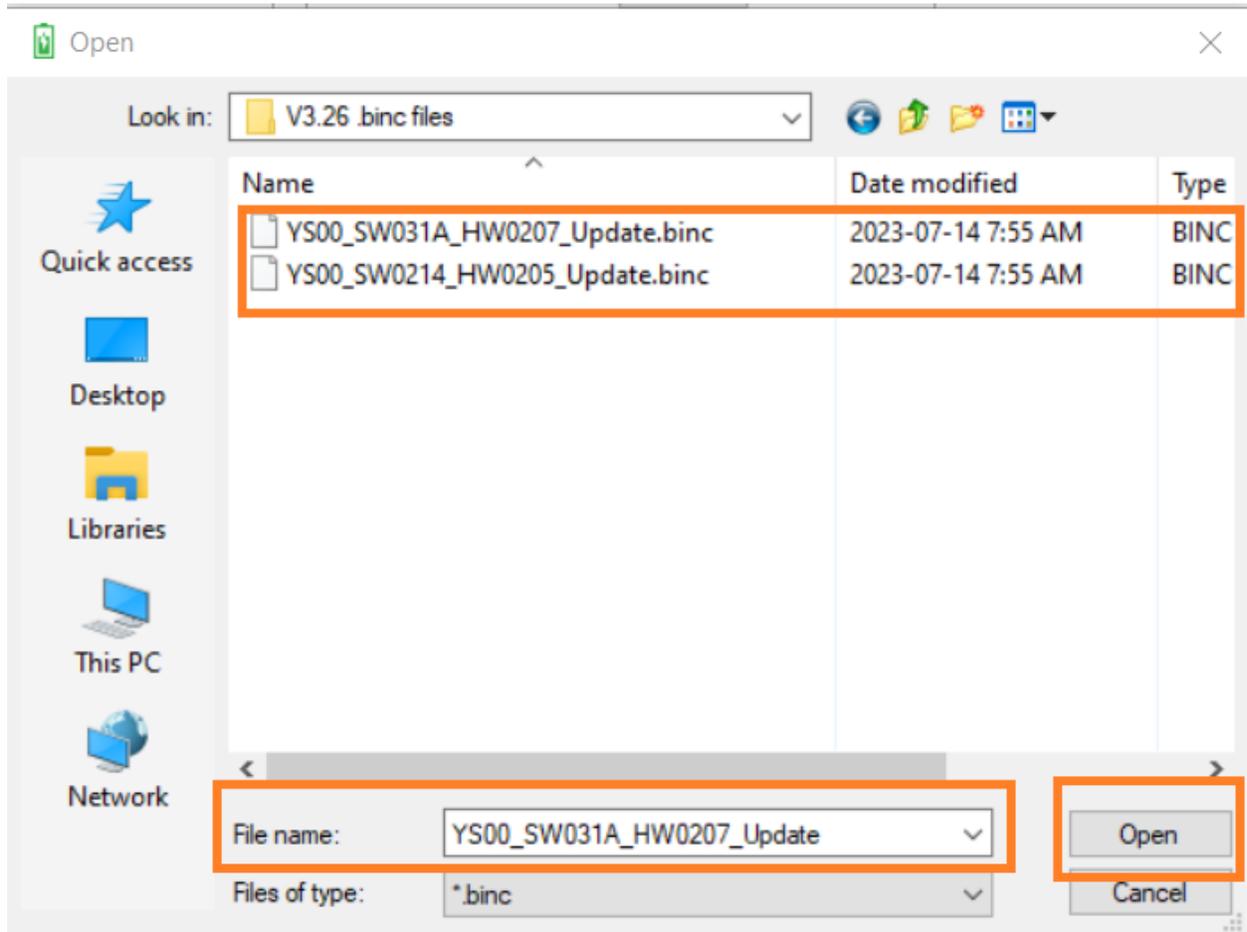
Get boot information successfully!

Status: **BMS:** Time: 2023-08-15 13:16:39

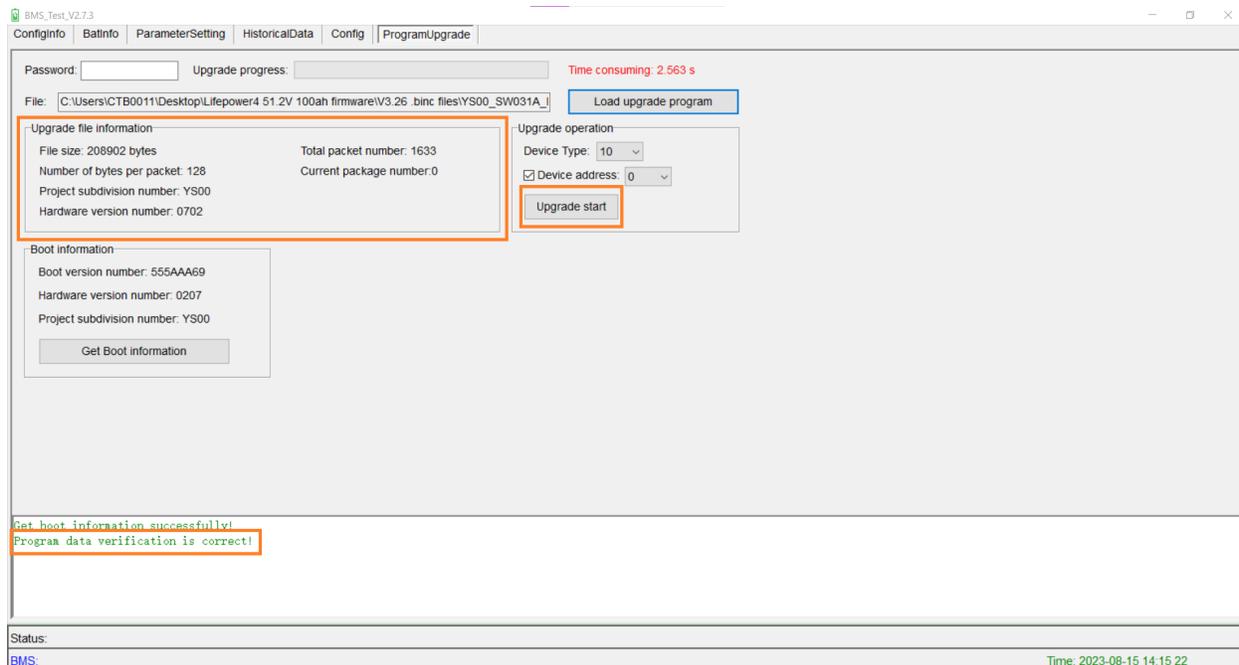
8. File explorer will open, locate the update .BINC firmware folder



9. After determining which Hardware Version the battery your updating has, choose the correct HW0207 or HW0205 . Binc file. Then click open



10. After opening the .BINC file, the information will automatically be populated for updating the firmware. Program data verification is correct! will be listed in the prompt below.



11. Now click upgrade start

The screenshot shows the 'ProgramUpgrade' tab in the BMS_Test_V2.7.3 application. The 'Upgrade progress' bar is empty, and the 'Time consuming' is 2.563 s. The 'Upgrade start' button is highlighted with a red box. The interface displays the following information:

- Upgrade file information:** File size: 208902 bytes, Total packet number: 1633, Number of bytes per packet: 128, Current package number: 0, Project subdivision number: YS00, Hardware version number: 0702.
- Upgrade operation:** Device Type: 10, Device address: 0, Upgrade start button.
- Boot information:** Boot version number: 555AAA69, Hardware version number: 0207, Project subdivision number: YS00, Get Boot information button.

Log output: Get boot information successfully!
Program data verification is correct!

Status: BMS: Time: 2023-08-15 14:15:22

12. The upgrade progress bar will begin to fill, after the update is finished Upgrade Successful! will be listed in the prompt below. You have now successfully updated a EG4 Lifepower4 battery.

The screenshot shows the 'ProgramUpgrade' tab in the BMS_Test_V2.7.3 application. The 'Upgrade progress' bar is filled with green, and the 'Time consuming' is 111.047 s. The 'Upgrade successful!' message is highlighted with a red box. The interface displays the following information:

- Upgrade file information:** File size: 208902 bytes, Total packet number: 820, Number of bytes per packet: 255, Current package number: 820, Project subdivision number: YS00, Hardware version number: 0702.
- Upgrade operation:** Device Type: 10, Device address: 0, Upgrade start button.
- Boot information:** Boot version number: 555AAA69, Hardware version number: 0207, Project subdivision number: YS00, Get Boot information button.

Log output: Get boot information successfully!
Program data verification is correct!
Upgrade successful!

Status: BMS: Time: 2023-08-15 14:33:28