



Update guide for the EG4 Lifepower4 battery

1. Use an RS-485 cable, RJ45 (Pins 1-B,2-A) to USB-A, to connect one end to the RS-485 port on the battery and the other end to a USB-A port on an Apple computer. An USB-A to USB-C adapter can be used if a newer Apple computer is being used.
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.

The screenshot shows the 'Config-info' tab of the BMS Test application. The 'Port Settings' section is highlighted with an orange box. It contains the following fields and controls:

- Port Number: (with a dropdown arrow) and a 'PortRefresh' button.
- App BaudRate: (with a dropdown arrow).
- Boot BaudRate: (with a dropdown arrow).
- Data Bits: (with a dropdown arrow).
- Parity: (with a dropdown arrow).
- Stop Bits: (with a dropdown arrow).
- Byte Interval: (with a dropdown arrow).
- A 'Connect' button is located to the right of the 'App BaudRate' field.

Other visible sections include:

- Language: (with a dropdown arrow).
- show communication frame: ☐ Hide.
- Save record configuration: ☐ Auto save, Number of recreated files: (with a dropdown arrow).
- Select battery type: (with a dropdown arrow).

At the bottom, there is a status bar with the text 'Status: Address added successfully!' and 'BMS:'. The time 'Time: 2023-09-13 07:51:18' is displayed in the bottom right corner.

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

ConfigInfo

BatInfo

ParameterSetting

HistoricalData

Config

ProgramUpgrade

Password:

Upgrade progress:

Time consuming:

File:

Load upgrade program

Upgrade file information

File size:

Number of bytes per packet:

Project subdivision number:

Hardware version number:

Total packet number:

Current package number:

Boot information

Boot version number:

Hardware version number:

Project subdivision number:

Get Boot information

Upgrade operation

Device Type: 10

Device address: 0

Upgrade start

Status: Port opened successfully!

BMS: QT-YS00-16SV100A-V3.26

Time: 2023-09-13 07:52:19

6. Now click Get Boot Information

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

The screenshot shows the 'ProgramUpgrade' tab in a BMS software interface. The top navigation bar includes 'ConfigInfo', 'BatInfo', 'ParameterSetting', 'HistoricalData', 'Config', and 'ProgramUpgrade'. The main area is divided into several sections:

- Password:** A text input field.
- Upgrade progress:** A progress bar.
- File:** A text input field.
- Upgrade file information:** A section containing fields for 'File size:', 'Number of bytes per packet:', 'Project subdivision number:', and 'Hardware version number:'. It also includes 'Total packet number:' and 'Current package number:'.
- Upgrade operation:** A section containing 'Device Type:' (set to 10), 'Device address:' (checked and set to 0), and an 'Upgrade start' button.
- Boot information:** A section containing 'Boot version number: 555AAA69', 'Hardware version number: 0207', and 'Project subdivision number: YS00'. Below this is a 'Get Boot information' button, which is highlighted with an orange box.

Below the 'Get Boot information' button, a green message box displays 'Get boot information successfully!'. At the bottom of the interface, a status bar shows 'Status: Port opened successfully!', 'BMS: QT-YS00-16SV100A-V3.26', and 'Time: 2023-09-13 07:52:26'.

- 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.

ConfigInfo

BatInfo

ParameterSetting

HistoricalData

Config

ProgramUpgrade

Password:

Upgrade progress:

Time consuming: 0.841 s

File:

Load upgrade program

Upgrade file information

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

Total packet number:
Current package 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: Port opened successfully!

BMS: QT-YS00-16SV100A-V3.26

Time: 2023-09-13 07:52:26

8. Now click the load upgrade program.

ConfigInfo

BatInfo

ParameterSetting

HistoricalData

Config

ProgramUpgrade

Password:

Upgrade progress:

Time consuming: 0.841 s

File:

Load upgrade program

Upgrade file information

File size:

Number of bytes per packet:

Project subdivision number:

Hardware version number:

Total packet number:

Current package number:

Upgrade operation

Device Type:

☒ Device address:

Upgrade start

Boot information

Boot version number: 555AAA69

Hardware version number: 0207

Project subdivision number: YS00

Get Boot information

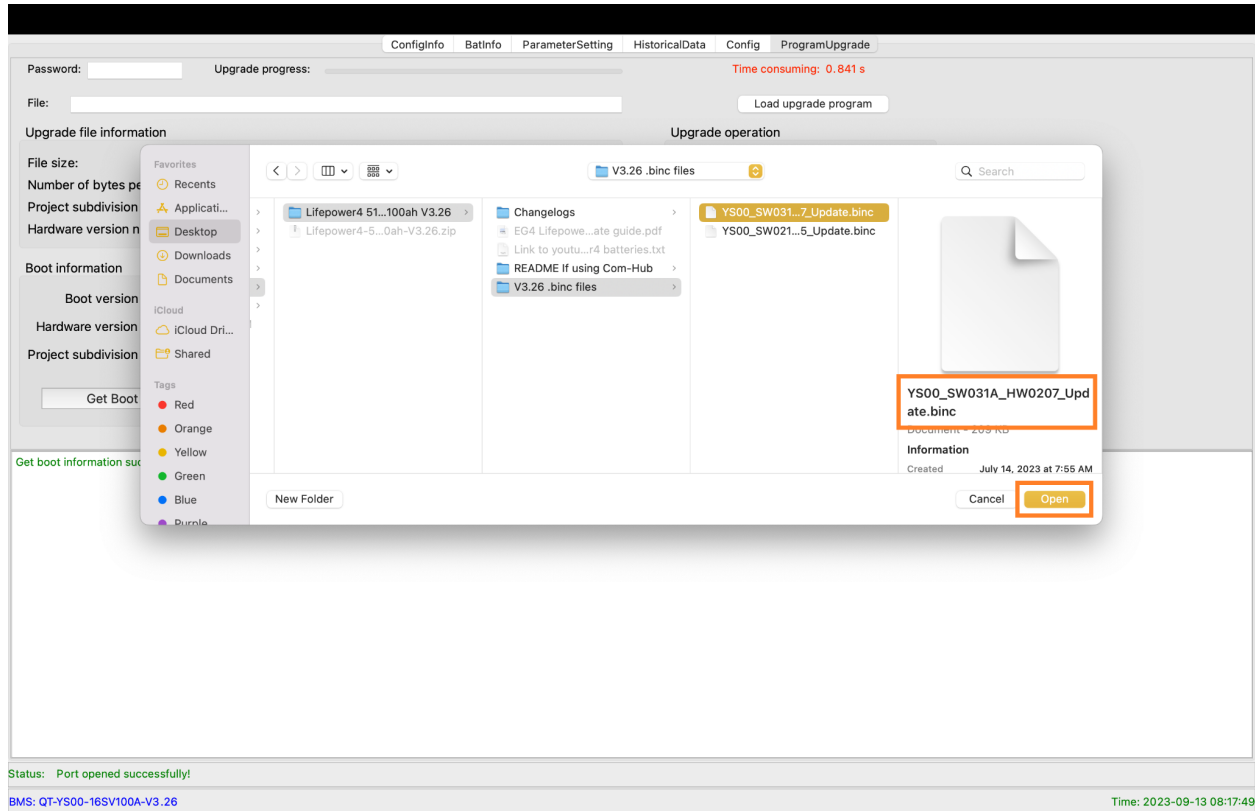
Get boot information successfully!

Status: Port opened successfully!

BMS: QT-YS00-16SV100A-V3.26

Time: 2023-09-13 07:52:26

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.

ConfigInfo

BatInfo

ParameterSetting

HistoricalData

Config

ProgramUpgrade

Password:

Upgrade progress:

Time consuming: 0.841 s

File:

Load upgrade program

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

Boot information

Boot version number: 555AAA69

Hardware version number: 0207

Project subdivision number: YS00

Get Boot information

Get boot information successfully!

Program data verification is correct!

Status: Port opened successfully!

BMS: QT-YS00-16SV100A-V3.26

Time: 2023-09-13 08:17:53

11. Now click upgrade start

ConfigInfo

BatInfo

ParameterSetting

HistoricalData

Config

ProgramUpgrade

Password:

Upgrade progress:

Time consuming: 0.841 s

File:

Load upgrade program

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

Boot information

Boot version number: 555AAA69

Hardware version number: 0207

Project subdivision number: YS00

Get Boot information

Get boot information successfully!
Program data verification is correct!

Status: Port opened successfully!

BMS: QT-YS00-16SV100A-V3.26

Time: 2023-09-13 08:17:53

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.

ConfigInfo

BatInfo

ParameterSetting

HistoricalData

Config

ProgramUpgrade

Password:

Upgrade progress:

Time consuming: 57.720 s

File:

Load upgrade program

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

Boot information

Boot version number: 555AAA69

Hardware version number: 0207

Project subdivision number: YS00

Get Boot information

Get boot information successfully!

Program data verification is correct!

Upgrade successful!

Status: Port opened successfully!

BMS: QT-YS00-16SV100A-V3.26

Time: 2023-09-13 08:19:06