

GROWATT ARK、AXE系列低压电池升级指引

GROWATT ARK、AXE LV Battery Update Guidelines

1 U 盘升级 USB flash disk Update

1) 确认 U 盘格式为 FAT32。Confirm that the format of the USB flash drive is FAT32.



2) 新建 BCONFIG.txt 文件, 将此文件放入 U 盘的根目录下。文件配置内容如下:

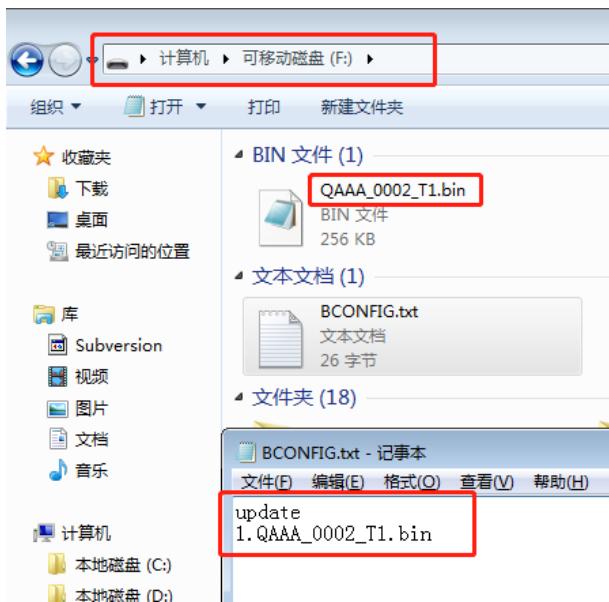
Create a new BCONFIG.txt file and place this file in the root directory of the USB flash disk. The file configuration content is as follows:

第一行: update

First line: update

第二行: 1.文件名称.文件类型

Second line: 1. File name. File type



- 3) U 盘配置好升级文件后，插到电池主机（与逆变器通信的电池）或者逆变器 USB 接口。

After the USB flash disk is configured with the update file, plug it into the battery host (the battery that communicates with the inverter) or the inverter USB interface

- U 盘插到电池主机 USB 接口：
- Plug the USB flash disk into the USB port of the battery host:

主机功能指示灯（第一个指示灯）绿灯快速闪烁；

The host function indicator (the first indicator) flashes green quickly;

中间从机功能指示灯（第一个指示灯）绿灯快速闪烁；

The middle slave function indicator (the first indicator) flashes green quickly;

末端从机功能指示灯（第一个指示灯）绿灯快速闪烁；

The end slave function indicator (the first indicator) flashes green quickly;

- U 盘插到逆变器 USB 接口：
- Plug the U disk into the USB port of the inverter:

逆变器功能指示灯闪烁，LCD 屏显示：“Programing”；

The inverter function indicator flashes, and the LCD screen displays : 'Programing' ;

LCD 屏显示：“Programing OK”；

LCD screen displays: 'Programing OK' ;

主机功能指示灯（第一个指示灯）绿灯快速闪烁；

The host function indicator (the first indicator) flashes green quickly;

中间从机功能指示灯（第一个指示灯）绿灯快速闪烁；

The middle slave function indicator (the first indicator) flashes green quickly;

末端从机功能指示灯（第一个指示灯）绿灯快速闪烁；

The end slave function indicator (the first indicator) flashes green quickly;

4) 所有电池功能指示灯（第一个指示灯）红灯快速闪烁，闪烁结束后电池重启，

升级成功。

All battery function indicator lights (the first indicator light) flash red quickly, and the battery restarts after flashing, and the upgrade is successful.

2 远程升级 Online Update

a) 登陆网址 <http://update.growatt.com/>, 打开升级界面，登录密码: update+日期，

示例：update20201010。

Log in to the website <http://update.growatt.com/>, open the upgrade interface, log in password: update+date, example: update20201010.

b) 上传升级文件。Upload Firmware.

第一步：选择上传固件，手动上传；

Step 1: Choose to upload firmware, manual upload;

The screenshot shows the 'Growatt Online Upgrade System' interface. On the left, there is a sidebar with various upgrade options: Inverter Upgrade, Storage Upgrade, SPH Update, Max/Mid/MAC Upgrade, Ac Couple Upgrade, MIN/MIC update, Batch Upgrade, and Upload Firmware. The 'Upload Firmware' option is highlighted with a red box. The main area has a title '古瑞瓦特在线升级系统' (Growatt Online Upgrade System) and a sub-section titled '请选择固件上传方式' (Please select firmware upload mode). It includes a text input field for '请输入要升级的设备的采集器序列号:' (Enter the serial number of the device to be upgraded) and a 'Confirm' button. Below this, there is another section labeled '2. 手动上传' (Manual upload), which is also highlighted with a red box.

第二步：选择创建文件路径：/device/New/BMS

Step 2: Select the path to create the file: /device/New/BMS

This screenshot shows the 'Batch Upgrade' section of the interface. The sidebar on the left has '上传固件' (Upload Firmware) highlighted with a red box. The main area has a title 'HTTP上传文件-->适用于ShineWiFi-S/ShineWiFi-X/ShineGPRS(1.0.5.0版本以上)/ ShineGPRS -X/Shine4G升级逆变器、交流储能机(SPA)、MIN(TL-X/TL-XH)、混储一体机(MIX)、MAX升级固件需上传至New文件夹下，其他设备升级固件上传至Old文件夹下' (HTTP upload file --> applicable for ShineWiFi-S/ShineWiFi-X/ShineGPRS (Version 1.0.5.0 or higher) / ShineGPRS -X/Shine4G Upgrade Inverter, AC Coupling SPA, MIN(TL-X/TL-XH), Hybrid Storage MIX, MAX Upgrade Firmware Needs To Be Uploaded To The New Folder, Other Devices Upgrade Firmware To Upload To The Old Folder). It features a 'Create New Folder' button and a dropdown menu for selecting a folder, with 'New' selected. There is also a '当前文件夹' (Current Folder) dropdown set to 'Old'.

This screenshot shows the 'Growatt Online Upgrade System' interface. The sidebar on the left has 'Upload Firmware' highlighted with a red box. The main area has a title 'Growatt Online Upgrade System'. It includes a 'Create A New Folder' button and a 'Current Folder: /Products' dropdown. Below this, there is a section for 'The Folder Below The File:' with a 'Select The Upload File:' input field and a 'Must Be In English' note. A red box highlights the 'Select The Upload File:' input field. At the bottom, there is a note: 'Http Upload File --> For Shinewifi-S/Shinewifi-X/Shinegprs (Version 1.0.5.0 Or Higher) / Shinegprs -X/Shine4G Upgrade Inverter, Ac Couple(Spa), Min(Tl-X/Tl-Xh), Hybrid Inverter(Mix), Max Upgrade Firmware Needs To Be Uploaded To The New Folder, Other Devices Upgrade Firmware To Upload To The Old Folder'. The interface also shows a 'Please Select The Folder:' dropdown and a 'Create A New Folder' button, both highlighted with red boxes. There is also a 'Current Folder: /device' dropdown, a 'Folder Name' input field, and a 'Create' button.

第三步：选择创建好的文件路径/device/New/BMS 上传电池 BIN 文件

Step 3: Select the created file path ‘/device/New/BMS’ to upload the battery BIN file

The image contains two screenshots of the Growatt Online Upgrade System interface. Both screenshots show a sidebar with options like Inverter Upgrade, Storage Upgrade, SPH Update, etc., and a main panel for upgrading the BMS.

Screenshot 1 (Top): The main panel title is '古瑞瓦特在线升级系统' (Growatt Online Upgrade System). It shows a folder structure under '当前文件夹: /Products'. A red box highlights the '请选择上传文件:' input field and the '上传' (Upload) button. Below the input field, it says '文件名必须为英文' (File name must be English). A note at the top states: 'HTTP上传文件-->适用于ShineWIFI-S/ShineWiFi-X/ShineGPRS(1.0.5.0版本以上)/ ShineGPRS -X/Shine4G升级逆变器, 交控储配机(SPA), MIN(TL-X/TL-XH), 混合一体机(MIX), MAX升级固件需上传至New文件夹下, 其他设备升级固件上传至Old文件夹下'.

Screenshot 2 (Bottom): The main panel title is 'Growatt Online Upgrade System'. It shows a note 'Must Be In English'. A red box highlights the '请选择上传文件:' input field and the '上传' (Upload) button. Below the input field, it says '文件名必须为英文' (File name must be English). A note at the top states: 'Http Upload File -->> For Shinewifi-S/Shinewifi-X/Shinegprs (Version 1.0.5.0 Or Higher) / Shinegprs -X/Shine4G Upgrade Inverter, Ac Couple(Spa), Min(Tl-X/Tl-Xh), Hybrid Inverter(Mix), Max Upgrade Firmware Needs To Be Uploaded To The New Folder, Other Devices Upgrade Firmware To Upload To The Old Folder'.

c) 升级电池。Upgrade battery.

第一步：选择逆变器机型

Step 1: Choose the inverter model

第二步：输入采集器序列号

Step 2: Enter the serial number of the datalogger

第三步：确认逆变器序列号和采集器序列号

Step 3: Confirm the inverter serial number and datalogger serial number

The screenshot shows the 'Growatt Online Upgrade System' interface. On the left, a sidebar menu lists various upgrade options: Inverter Upgrade, Storage Upgrade, SPH Update (highlighted in blue), MAX/MID/MAC Upgrade, AC Couple Upgrade, MIN/MIC update, Batch Upgrade, Upload Firmware, and Upgrade Instructions. The main panel has tabs for Configuration Upgrade, Upgrading (highlighted in blue), and Upgrade Record. A search bar at the top contains the serial number 'JPC5A11680'. Below it, a message states '所属用户: 产品开发六部 所属类型: ShineWIFI-S 系统状态: 在线 固件版本: 3.0.0.0'. A table displays the device information: No. 1, Hybrid Inverter Sn: SARN744009, Datalogger: JPC5A11680, Firmware Version: RA1.0, Internal Version: RAAA181603, Connection Status: 在线 (Online), Progress: 0%, Operating: Setting, and Path: Please Choose. Red numbers 1, 2, and 3 are overlaid on the sidebar, search bar, and table respectively.

第四步：选择文件路径/device/New/BMS/电池 bin 文件

This screenshot continues from the previous one, showing the 'Upgrading' tab selected. The search bar still contains 'JPC5A11680'. The message at the top remains the same. The table now includes a 'Path' column with a dropdown menu set to 'Please Choose'. A red box highlights this dropdown, and a red number 4 is overlaid on the right side of the table. The sidebar menu is identical to the first screenshot.

第五步：设置升级

Step 5: Set up update

The figure consists of four vertically stacked screenshots of the 'Growatt Online Upgrade System' interface. Each screenshot shows a table with device information and a red box highlighting a specific button or field.

Screenshot 1: Shows the initial configuration upgrade screen. A red box highlights the '设置' (Setting) button in the '操作' (Operation) column of the table.

序号	一体机序列号	采集器	固件版本	内部版本	连接状态	进度	操作	路径
1	SARN744009	JPC5A116B0	RA1.0	RAAA181603	在线		设置	BMS_LV_M3_QAAA_0002.bin

Screenshot 2: Shows the configuration upgrade progress. A red box highlights the 'Setting' status in the 'Operating' column.

No.	Hybrid Inverter Sn	Datalogger	Firmware Version	Internal Version	Connection Status	Progress	Operating	Path
1	SARN744009	JPC5A116B0	RA1.0	RAAA181603	Online		Setting	BMS_LV_M3_QAAA_0002.bin

Screenshot 3: Shows the configuration upgrade completed successfully. A red box highlights the '升级' (Upgrade) button in the '操作' (Operation) column.

序号	一体机序列号	采集器	固件版本	内部版本	连接状态	进度	操作	路径
1	SARN744009	JPC5A116B0	RA1.0	RAAA181603	在线	升级设置成功，等待升级进度上报	升级 取消	/deviceNew/BMS/BMS_LV_

Screenshot 4: Shows the configuration upgrade completed successfully. A red box highlights the 'Upgrade' status in the 'Operating' column.

No.	Hybrid Inverter Sn	Datalogger	Firmware Version	Internal Version	Connection Status	Progress	Operating	Path
1	SARN744009	JPC5A116B0	RA1.0	RAAA181603	Online	Upgrade setup is successful, waiting for upgrade progress report	Upgrade Cancel	/deviceNew/BMS/BMS_LV_

第六步：文件下发成功，确认升级成功。

Step 6: The file is successfully issued, confirm the success of the upgrade.

The screenshots show the 'Growatt Online Upgrade System' interface across three different versions of the software. Each screen includes a sidebar with upgrade options like Inverter Upgrade, Storage Upgrade, SPH Update, etc., and a main panel with tabs for Configuration Upgrade, Upgrading, and Upgrade Record.

Screenshot 1: Shows the 'Upgrading' tab. A red box highlights the progress bar which says '文件下发成功' (File download successful). The status message at the top indicates 1 item is being upgraded.

No.	一体机序列号	采集器	固件版本	内部版本	进度(刷新时间:10S)	路径	操作
1	SARN744009	JPC5A116B0	RA1.0	RAAA181603	文件下发成功	/device/New/BMS/BMS_LV_M3_QA...	取消

Screenshot 2: Shows the 'Upgrading' tab. A red box highlights the progress bar which says '升级进度:成功,请点击确定按钮' (Upgrade progress: successful, please click the OK button). The status message at the top indicates 1 item is being upgraded.

No.	一体机序列号	采集器	固件版本	内部版本	进度(刷新时间:10S)	路径	操作
1	SARN744009	JPC5A116B0	RA1.0	RAAA181603	升级进度:成功,请点击确定按钮	/device/New/BMS/BMS_LV_M3_QA...	确定

Screenshot 3: Shows the 'Upgrading' tab. A red box highlights the progress bar which says 'Upgrade progress:successPlease Click The Ok Button' (Upgrade progress: successfulPlease Click The Ok Button). The status message at the top indicates 1 item is being upgraded.

No.	Hybrid Inverter Sn	Datalogger	Firmware Version	Internal Version	Progress(Refresh Time:10S)	Path	Operating
1	SARN744009	JPC5A116B0	RA1.0	RAAA181603	Upgrade progress:successPlease Click The Ok Button	/device/New/BMS/BMS_LV_M3_QA...	Confirm

3 Shinebus 升级 Shinebus update

第一步：选择 COM 端口和波特率，选择机型，点击开始读取数据，确认上位机与储能机通信正常；

Step 1: Select the COM port and baudrate, select the model, click to start reading data, and confirm that the host computer and the energy storage machine communicate normally;

ShineBus

输入信息 端口: COM2 波特率: 9600 地址: 1 周期: 1000 Layout 中-En 帮助 SPA

设备信息

status

状态:	运行总时间:
AC信息	PV日电量: PV总电量:
电压(V)	日充电量: 总充电量:
电流(A)	日放电量: 总放电量:
功率(VA)	电网日取电量: 电网总取电量:
频率(Hz)	电网日馈电量: 电网总馈电量:
输出有功(W):	负载日用电量: 负载总用电量:
输出视在(VA):	
功率(W)	

历史信息

电压(V)	SOC(%):
电流(A)	充电功率(W): 放电功率(W):
功率(VA)	
频率(Hz)	
功率(W)	温度(°C):

开始

ShineBus

Input Info Port: COM2 Baudrate: 9600 Address: 1 Period: 1000 Layout En-中 Help SPA

Device Info

Standby

Status:	Standby
Run time:	0H0Min
AC Info	E PV today: 0.0 E PV total: 0.0
Volt(V)	E charge today: 2.5 E charge total: 23.3
Curr(A)	E discharge today: 5.1 E discharge total: 22.6
Power(VA)	E fromGrid today: 2.5 E fromGrid total: 24.6
Freq(Hz)	E toGrid today: 4.6 E toGrid total: 20.8
Pout Active(W):	E Load today: 0.5 E Load total: 3.1
Pout Appa(VA):	
Power(W)	

Battery Info

Volt(V)	52.3
SOC(%):	12
Charge power(W):	0.0
Discharge power(W):	
Temp(°C)	2031616.6

Load Info

Volt(V)	0.0
Curr(A)	0.0
Power(VA)	0.0
Freq(Hz)	0.00
Power(W)	0.0

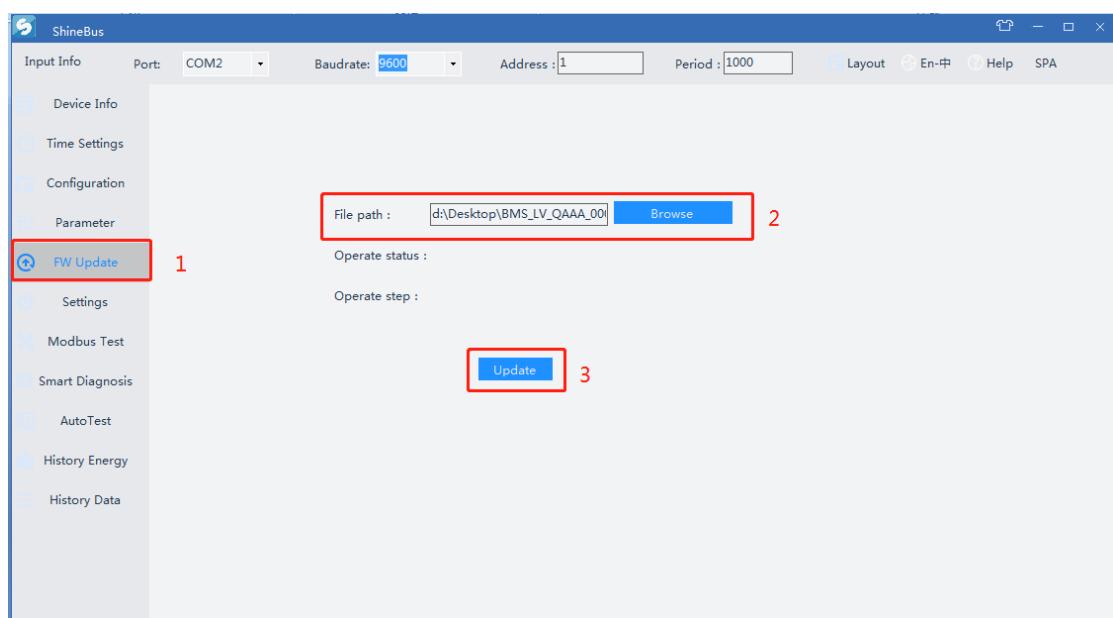
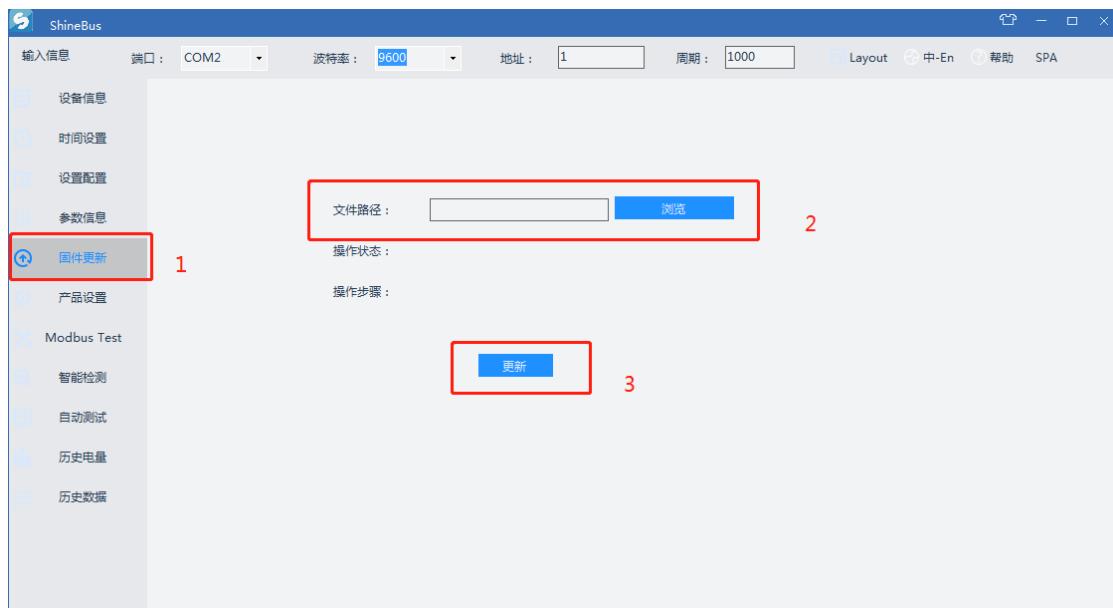
System Info

SN:	1236547451
Mode:	A1B1D0T4PFU2M2SF
FW Ver:	RH1.0 (RHA-060803)
Com Ver:	ZCAA-3
Modbus Ver:	V1.49

Start

第二步：选择固件更新，选择电池升级 BIN 文件，点击更新；

Step 2: Select fw update, select battery update BIN file, click update;



第三步：确认烧录成功。

Step 3: Confirm that the update is successful.

