

# EG4® 18kPV HYBRID INVERTER REMOTE BATTERY UPDATE GUIDE



By following this guide, the user will be able to apply an update to the 18kPV hybrid inverter and WallMount batteries which allows the user to perform remote battery updates through the inverter. Please read the guide thoroughly before performing the update.



**NOTE: *DO NOT*** power any loads during the update, as this will cause an interruption in the update and the system will shut off and need to be restarted.

## 1. Begin by logging in to the EG4 Monitor Center.

monitor.eg4electronics.com/WManage/web/login

### Eg4 Monitor Center

Please enter username

Please enter password

[Forgot password?](#)

Sign in Register

Visit demo station

2. After logging in, begin by confirming that the EG4 WallMount 280Ah or EG4 LL-S/V2 100Ah battery you are attempting to update is able to be viewed by the online portal. Confirm that you are on the correct inverter station before proceeding.

The screenshot displays the 'Device Monitor - Monitor Center' web interface. The top navigation bar includes 'Monitor', 'Data', 'Configuration', 'Overview', and 'Maintenance'. A dropdown menu for 'Select station first' is highlighted. The main dashboard shows several key metrics: Solar Yield (0 kWh Today, 13.1 kWh Total Yield), Battery Charge (59.3 kWh Charged Today, 14683.3 kWh Total Charged), Import (61.6 kWh Today Import, 15286.1 kWh Total Import), and Consumption (0.3 kWh Today Usage, 126.9 kWh Total Usage). The System Information section shows PV1, PV2, and PV3 power outputs (all 0 W), a 'Normal' status, and a battery voltage of 52.6 Vdc. A 'Battery Information' pop-up window is highlighted, showing details for 'Battery 0 - Battery\_ID\_01 - V.2.17': Total Vol: 52.56 V, SOC: 42%, Current: -1.2 A, SOH: 100%. Other highlighted areas include the 'Remain Cap' (117 Ah), 'Full Cap' (280 Ah), and 'Total Battery' (1) section, as well as the 'Discharge Cur' (-1.1 A) and 'TV' (52.6 v) parameters.

3. Next navigate to the “Maintenance” tab, then click “Read”. To do a remote update, the “Lithium Brand” has to be set to “Lithium-1”.

The screenshot displays the 'Remote Set - Monitor Center' web interface. The top navigation bar includes 'Monitor', 'Data', 'Configuration', 'Overview', and 'Maintenance'. The 'Maintenance' tab is highlighted. A 'Read' button is visible. The main configuration area is divided into 'Common Setting' and 'Application Setting'. The 'Common Setting' section includes fields for Time (2024-01-02 09:56:24), MODBUS Addr (1), PV Input Mode (1: PV1 In), and Neutral Detect Enable (Enable/Disable). The 'Model' section is highlighted, showing Measurement (1: CT), CT Direction Reversed (Enable/Disable), Battery Type (2: Lithium), Lead-acid Capacity (<Empty>), ISO Enable (Enable/Disable), LCD Version (11/1/0/0), and LCD Password (0). The 'Lithium Brand' dropdown is set to '1' and is highlighted. The 'Application Setting' section includes EPS Voltage Set(V) (240), Power Backup (Enable/Disable), Grid Sell Back (Enable/Disable), Fast Zero Export (Enable/Disable), PV Arc (Enable/Disable), Run Without Grid (Enable/Disable), PV Grid Off (Enable/Disable), Seamless EPS switching (Enable/Disable), Grid Sell Back Power(kW) (12), Off-Grid Mode (Enable/Disable), PV Arc Fault Clear (Clear), and RSD (Enable/Disable).

## 4. Navigate to the “Remote Update” section under “Maintenance”, and confirm the Station name.

The screenshot shows the 'Remote Update' section of the EG4 Electronics web interface. The left sidebar contains a menu with 'Remote Update' highlighted. The main content area features a 'Firmware File' field with a 'Choose file' button highlighted in red. Below this is a table with columns: Serial number, Dongle, FW Code, Connect Status, and Action. The table contains three rows of data. To the right, there is a larger table with columns: Serial number, Mode, Firmware, Start Time, Update Status, Rate of Progress, Stop Time, and Action. Below this is a table with columns: Firmware File, Firmware Type, Upload Time, and Remarks, containing 13 rows of data.

## 5. Select “Choose File” next to “Firmware File:” as shown below.

This screenshot is identical to the previous one, but with the 'Choose file' button next to the 'Firmware File' field highlighted in red, indicating the next step in the process.

- After selecting “Choose File”, a navigation box will appear. In the main folder a file named “EG4 18kPV to PowerPro Firmware” is where the .BIN file will be located. Confirm that the firmware being uploaded is named “EG4 18kPV to PowerPro.bin”.

The screenshot shows the 'Remote Update' section of the EG4 Electronics web interface. A file selection dialog box is open, showing the path 'Desktop > PowerPro 200Ah EG4 18k Remote update > EG4 18k to PowerPro Firmware'. The file 'EG4 18k to PowerPro update.bin' is selected and highlighted with an orange box. The 'Open' button is also highlighted with an orange box. The background shows the 'Remote Update' section of the web interface with a table of device information.

Serial number	Dongle	PW Code	Connect	Statu	Action	Serial number	Mode	Firmware	Start Time	Update Status	Rate of Progress	Stop Time	Action
1													
2													
3													

- The firmware will now need to be uploaded to the online portal. Select “Upload File”.

The screenshot shows the 'Remote Update' section of the EG4 Electronics web interface. The 'Upload File' button is highlighted in orange. The interface displays a table of device information and a list of firmware files.

Serial number	Dongle	PW Code	Connect	Statu	Action	Serial number	Mode	Firmware	Start Time	Update Status	Rate of Progress	Stop Time	Action
1		FAAB-EB16	Connected	Update	Standard Update								
2		FAAB-EB16	Connected	Update	Standard Update								
3		FAAB-EB16	Connected	Update	Standard Update								

All Type	Firmware File	Firmware Type	Upload Time	Remarks
1	CCAA-xxxx0B_dsp_4.hex	PCS	2023-11-09 11:42:23	
2	ccaa-xx0Bcom_2.hex	PCS	2023-11-09 11:42:12	
3	CBA-16xxx_mspt_20231109.hex	PCS	2023-11-09 11:41:58	
4	CCAA-xxxx0A_7_4.hex	PCS	2023-11-06 02:32:25	
5	ccaa-xx0Axx_3.hex	PCS	2023-11-06 02:32:09	
6	FAAB-xx12_Para375_20230801.hex	PCS	2023-08-17 14:40:05	
7	FAAB-xx12_Para075_20230801.hex	PCS	2023-08-17 14:39:59	
8	FAAB-13xx_20230809_App.hex	PCS	2023-08-17 14:39:49	
9	FAAB-xx10_20230701_App.hex	PCS	2023-07-10 15:14:50	
10	FAAB-xx10_Para375_20230701.hex	PCS	2023-07-01 13:35:55	
11	FAAB-xx10_Para075_20230701.hex	PCS	2023-07-01 13:35:49	
12	FAAB-10xx_20230701_App.hex	PCS	2023-07-01 13:35:39	
13	FAAB-xx0E_375D5P_20230513.hex	PCS	2023-06-22 16:02:11	
14	FAAB-xx0E_375D5P_20230513.hex	PCS	2023-06-22 16:02:11	

## 8. The firmware file has now been uploaded to the portal.



**NOTE: Double check that the correct firmware has been uploaded. Failure to do so will result in a soft-bricked BMS. If an incorrect file is uploaded, a manual RS485 update using a windows computer must be done to unbrick the BMS.**

The screenshot shows the 'Remote Update' interface. At the top right, a status bar indicates 'Current Firmware: EG4 18k to PowerPro update.bin - 100'. Below this, there are buttons for 'Choose file', 'Upload File', and 'Upload BMS File'. A table lists three stations, all with 'FAAB-EB16' FW Code and 'Connected' status. The 'Update' column for each station shows 'Standard Update'. Below the main table is a detailed log of all firmware updates, including file names, types, upload times, and remarks.

Serial number	Dongle	FW Code	Connect Status	Action
1		FAAB-EB16	Connected	Update Standard Update
2		FAAB-EB16	Connected	Update Standard Update
3		FAAB-EB16	Connected	Update Standard Update

Firmware File	Firmware Type	Upload Time	Remarks
1 CCAA-xxxx08_dsp_4.hex	PCS	2023-11-09 11:42:23	
2 ccaa-xx08box_com_2.hex	PCS	2023-11-09 11:42:12	
3 CBA-16xxxx_mppt_20231109.hex	PCS	2023-11-09 11:41:58	
4 CCAA-xxxx0A_7_4.hex	PCS	2023-11-06 02:32:25	
5 ccaa-xx0Axx_3.hex	PCS	2023-11-06 02:32:09	
6 FAAB-xx12_Para375_20230801.hex	PCS	2023-08-17 14:40:05	
7 FAAB-xx12_Para075_20230801.hex	PCS	2023-08-17 14:39:59	
8 FAAB-13xx_20230809_App.hex	PCS	2023-08-17 14:39:49	
9 FAAB-11xx_20230701_App.hex	PCS	2023-07-10 15:14:50	
10 FAAB-xx10_Para375_20230701.hex	PCS	2023-07-01 13:35:55	
11 FAAB-xx10_Para075_20230701.hex	PCS	2023-07-01 13:35:49	
12 FAAB-10xx_20230701_App.hex	PCS	2023-07-01 13:35:39	
13 FAAB-xx0E_375D5P_20230513.hex	PCS	2023-06-22 16:02:11	
14 CCAA-xxxx08_dsp_4.hex	PCS	2023-06-22 16:01:49	

## 9. In this guide, Station #1 refers to the EG4 18kPV inverter station responsible for updating the EG4 batteries.

This screenshot is identical to the previous one, but with a red box highlighting the first row of the station table, indicating that Station #1 is the focus of the guide.

Serial number	Dongle	FW Code	Connect Status	Action
1		FAAB-EB16	Connected	Update Standard Update
3		FAAB-EB16	Connected	Update Standard Update

10. Last, click Update under the “Action column”. A progress bar will appear. The “Rate of Progress” will start at 0% and end at 100%. This is the status for the file being downloaded to the inverter. When reaching 100%, the file has been downloaded but not yet applied. Proceed to step 11.

The screenshot shows the 'Remote Update' section of the EG4 Electronics web interface. The 'Station' is selected, and the 'Auto Reload' checkbox is checked. The 'Current Firmware' is 'EG4 18k to PowerPro update.bin - 100'. The 'Firmware File' section shows a table with three rows, each with a 'Serial number', 'Dongle', 'FW Code', 'Connect Status', and 'Action' column. The 'Update' button in the 'Action' column of the first row is highlighted with an orange box. Below this, a larger table shows the progress of the update for the first row, with columns for 'Serial number', 'Mode', 'Firmware', 'Start Time', 'Update Status', 'Rate of Progress', 'Stop Time', and 'Action'. The 'Update Status' is 'Updating' and the 'Rate of Progress' is '18% - 18 / 100'. The 'Action' column has a 'Cancel' button. At the bottom, there is a list of all firmware files with columns for 'Firmware File', 'Firmware Type', 'Upload Time', and 'Remarks'.

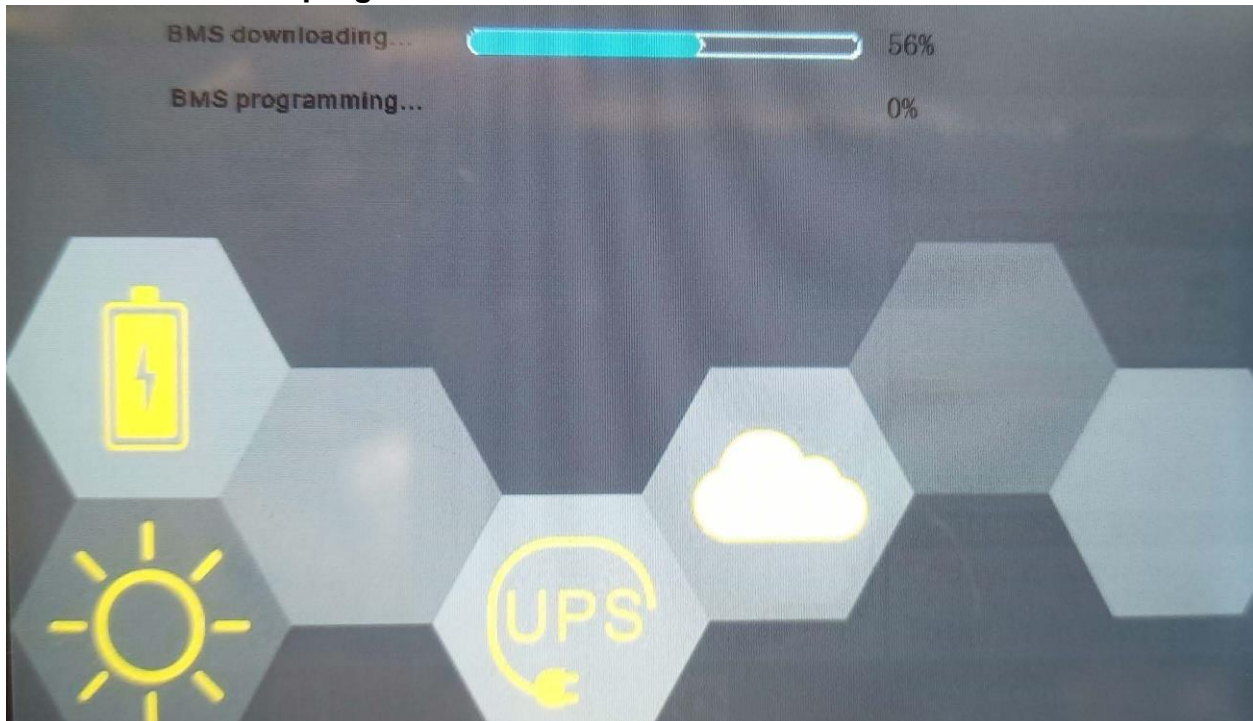
11. After the file has been downloaded to the inverter, the “Update Status” will read: “Success”. At this point, do not press cancel or power off the inverter/battery. The battery programming will begin.

The screenshot shows the same 'Remote Update' section of the EG4 Electronics web interface. The 'Update Status' in the progress table is now 'Success' and the 'Rate of Progress' is '100% - 100 / 100'. The 'Action' column still has a 'Cancel' button. The 'Firmware File' list at the bottom remains the same.



**NOTE:** *The screen below will be visible at the same time the updates are going on. DO NOT SHUT OFF THE INVERTER!!!*

This is the EG4 18kPV inverter screen. While the file is downloading to the inverter, the BMS download progress bar will continue to fill until it reaches 100%.



Once the “BMS downloading” progress bar reaches 100%, the “BMS programming” will begin, and progress will be seen on the progress bar, as shown below. Once both tasks have reached 100% progress, the PowerPro battery has fully updated and will automatically restart.

