

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' web interface. The top navigation bar includes 'Monitor', 'Data', 'Configuration', 'Overview', and 'Maintenance'. A dropdown menu is open, showing 'Select station first'. The main dashboard features several widgets: '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 indicator, and a 'GEN Dry Contact: OFF' warning. A 'Battery Information' box is highlighted, showing 'Battery 0 - Battery_ID_01 - V.2.17' with a total voltage of 52.56 V, 42% SOC, -1.2 A current, and 100% SOH. Other battery metrics include 'Remain Cap' (117 Ah), 'Full Cap' (280 Ah), and 'Total Battery' (1).

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

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 has a 'Remote Update' button highlighted in yellow. The main content area has a 'Firmware File' section highlighted with a red box, containing 'Please choose a file', 'Choose file', 'Upload File', and 'Upload BMS File' options. Below this is a table with columns: Serial number, Dongle, FW Code, Connect Statu, Action. The table contains three rows, all with 'FAAB-EB16' as the FW Code and 'Connected' as the status. The right side of the interface shows a larger table with columns: Serial number, Mode, Firmware, Start Time, Update Status, Rate of Progress, Stop Time, Action. Below this is a list of firmware files with columns: Firmware File, Firmware Type, Upload Time, Remarks.

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

This screenshot is identical to the previous one, but with a red box highlighting the 'Choose file' button in the 'Firmware File' section. The rest of the interface, including the sidebar, the main table, and the firmware file list, remains the same.

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.

Remote Transfer - Monitor Cent | EG4 18k remote battery update | monitor.eg4electronics.com/W/Manage/web/maintain/remotefirmwareupdate

EG4 ELECTRONICS | Monitor | Data | Configuration | Overview | Maintenance | English

Station: [Dropdown] | Serial number: [Input] | Online Device: | Auto Reload: | Current Firmware: EG4 18k to PowerPro update.bin - 100

Firmware File: Please choose a file | Choose file | Upload File | Upload BMS File

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

Serial number	Mode	Firmware	Start Time	Update Status	Rate of Progress	Stop Time	Action
1							
2							
3							

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.

Remote Transfer - Monitor Cent | EG4 18k remote battery update | monitor.eg4electronics.com/W/Manage/web/maintain/remotefirmwareupdate

EG4 ELECTRONICS | Monitor | Data | Configuration | Overview | Maintenance | English

Station: [Dropdown] | Serial number: [Input] | Online Device: | Auto Reload: | Current Firmware: EG4 18k to PowerPro update.bin - 100

Firmware File: Please choose a file | Choose file | Upload File | Upload BMS File

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

Serial number	Mode	Firmware	Start Time	Update Status	Rate of Progress	Stop Time	Action
1							
3							

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	

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'. A table lists three inverters with serial numbers 1, 2, and 3, all with FW Code 'FAAB-EB16' and 'Connected' status. The 'Update' button in the 'Action' column for the first inverter is highlighted with an orange box. Below this table, a larger table shows the update progress for the first inverter, with 'Update Status' set to 'Updating' and 'Rate of Progress' at '18% - 18 / 100'. The 'Action' column for this row has a 'Cancel' button. A list of firmware files is visible at the bottom, including 'CCAA-xxxx00_dsp_4.hex', 'ccaa-xx08box_com_2.hex', 'CBA-16xxxx_mppt_20231109.hex', etc.

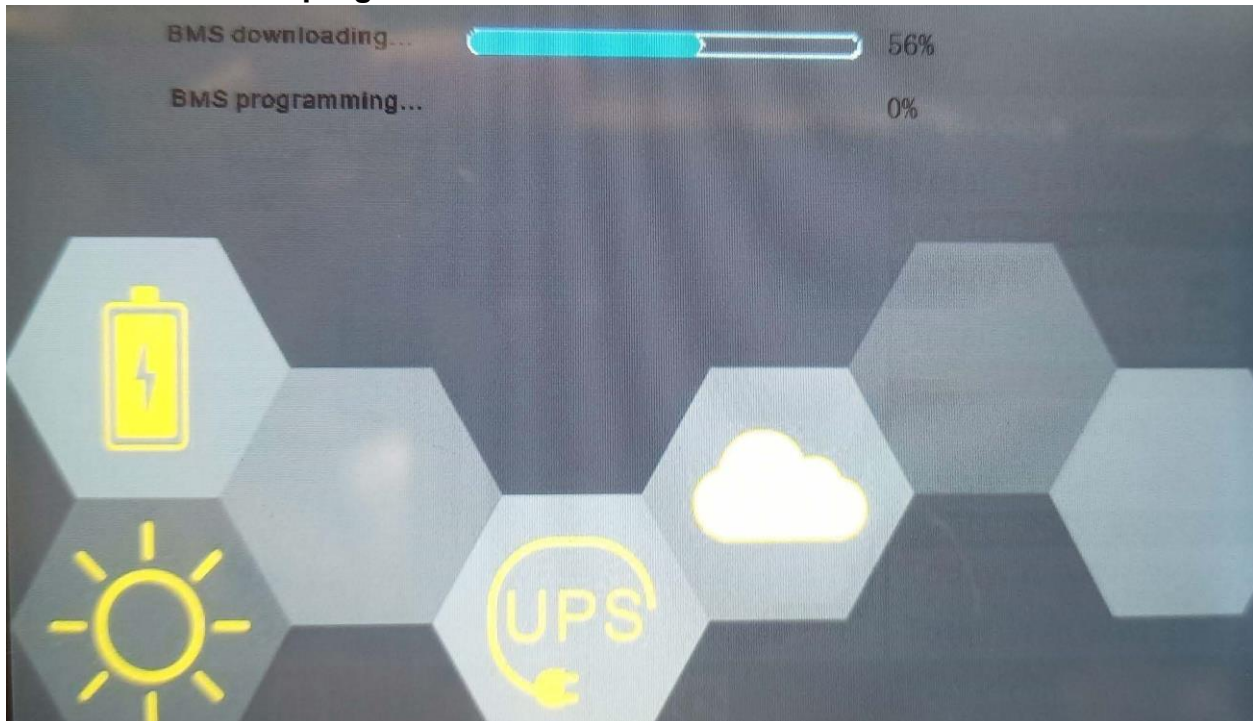
11. After the file has been downloaded to the inverter, the “Update Status” will read: “Success”. At this point, do not press cancel or power off the inverter/battery. The battery programming will begin.

The screenshot shows the same 'Remote Update' section as in step 10. The 'Update Status' for the first inverter is now 'Success', and the 'Rate of Progress' is '100% - 100 / 100'. The 'Update Status' and 'Rate of Progress' cells are highlighted with an orange box. The 'Action' column now shows 'Cancel' instead of 'Update'. The 'Current Firmware' remains 'EG4 18k to PowerPro update.bin - 100'. The list of firmware files at the bottom is the same as in the previous screenshot.



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.

