



EG4 18kPV Remote Battery Update Guide

In order to complete this guide, a EG4 18k & EG4 PowerPro update or EG4 LL V2 update could be needed to complete a battery remote update.

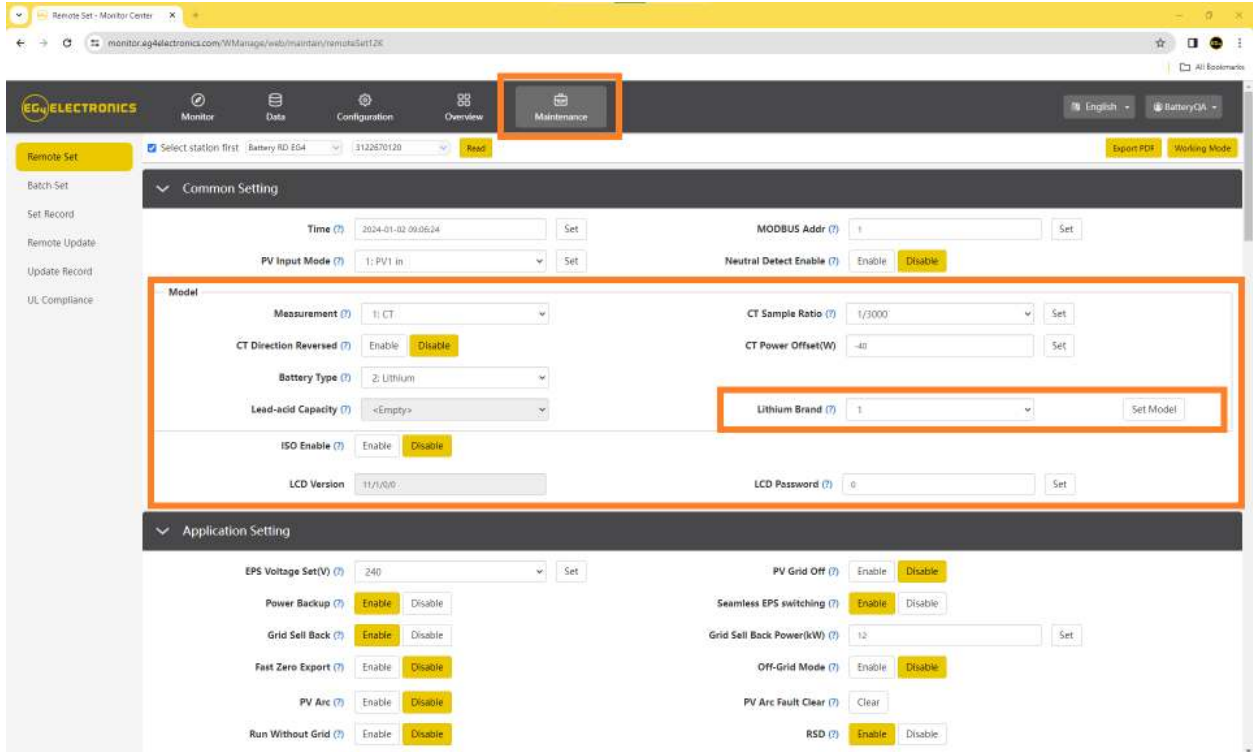
1. Begin by logging into the www.monitor.eg4electronics.com website.

After logging in, begin by confirming that the EG4 PowerPro 280ah or EG4 LL 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.

The screenshot displays the EG4 monitor website dashboard. The top navigation bar includes 'Monitor', 'Data', 'Configuration', 'Overview', and 'Maintenance'. A dropdown menu shows 'Select station first' and 'Battery AD 224'. The dashboard is divided into several sections:

- Solar Yield:** 0 kWh Yield 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.
- Consumption:** 0.3 kWh Today Usage, 126.9 kWh Total Usage.
- System Information:** 2024-01-02 09:12:58. PV1, PV2, and PV3 all show 0 W and 0.2 V. A 'Normal' status indicator is present.
- Battery Status:** 0 W, 41% SOC, 52.6 Vdc. GEN Dry Contact: OFF.
- Power Sources:** EPS L1N: 0 W, EPS L2N: 0 W, StandBy Backup Power(EPS): 0 W, Consumption Power: 0 W.
- Buttons:** GEN Quick Start, Start Quick Charge.
- Right Panel:** Remain Cap: 117 Ah, Full Cap: 280 Ah, Total Battery: 1. Discharge Cur: -1.1 A, TV: 52.6 v.
- Battery Information (Bottom Left):** Battery 0 - Battery_ID_01 - V 2.17. Total Vol: 52.56 V, SOC: 42%. Current: -1.2 A, SOH: 100%.

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



3. Navigate to the Remote Update section under Maintenance, then confirm that you are on the correct Station.

The screenshot displays the EGY ELECTRONICS web application interface. The top navigation bar includes 'Monitor', 'Data', 'Configuration', 'Overview', and 'Maintenance'. The 'Maintenance' tab is active, and the 'Remote Update' section is highlighted in the left sidebar. The main content area shows a 'Station' dropdown set to 'Battery RD EG4' and a table of update records. Below this, a detailed list of firmware files is shown, including file names, types, and upload times.

Serial number	Dongle	FW Code	Connect Status	Action	Standard Update
1 : 3122670120	BG32601904	FAAB-EB16	Connected	Update	Standard Update
2 : 3192670198	BG32603556	FAAB-EB16	Connected	Update	Standard Update
3 : 3192670235	BG32605044	FAAB-EB16	Connected	Update	Standard Update

Firmware File	Firmware Type	Upload Time	Remarks
1 : CCAA-xxxx0B_dsp_4.hex	PCS	2023-11-09 11:42:23	
2 : rcaa-wx08w_com_2.hex	PCS	2023-11-09 11:42:12	
3 : CBA-15xxx_mqtt_20231105.hex	PCS	2023-11-09 11:41:58	
4 : CCA-xxxx0A_7_4.hex	PCS	2023-11-09 02:52:25	
5 : cca-wx08w_2.hex	PCS	2023-11-09 02:52:09	
6 : FAAB-wx12_Para075_20230801.hex	PCS	2023-08-17 14:40:05	
7 : FAAB-wx12_Para075_20230801.hex	PCS	2023-08-17 14:39:52	
8 : FAAB-11xx_20230801_Apps.hex	PCS	2023-08-17 14:26:40	
9 : FAAB-11xx_20230701_Apps.hex	PCS	2023-07-18 15:14:50	
10 : FAAB-wx10_Para075_20230701.hex	PCS	2023-07-01 18:35:55	
11 : FAAB-wx10_Para075_20230701.hex	PCS	2023-07-01 18:35:49	
12 : FAAB-11xx_20230701_Apps.hex	PCS	2023-07-01 18:35:30	
13 : FAAB-wx08_270505P_20230513.hex	PCS	2023-06-22 16:02:11	
14 : CCA-15xxx_mqtt_20231105.hex	PCS	2023-11-09 11:41:58	

4. Next to Firmware File: click on Choose File.

The screenshot displays the 'Remote Update' section of the EGY ELECTRONICS management interface. The 'Firmware File' field is highlighted with a red box, and the 'Choose File' button is also highlighted. The interface shows a list of devices and a table of firmware files.

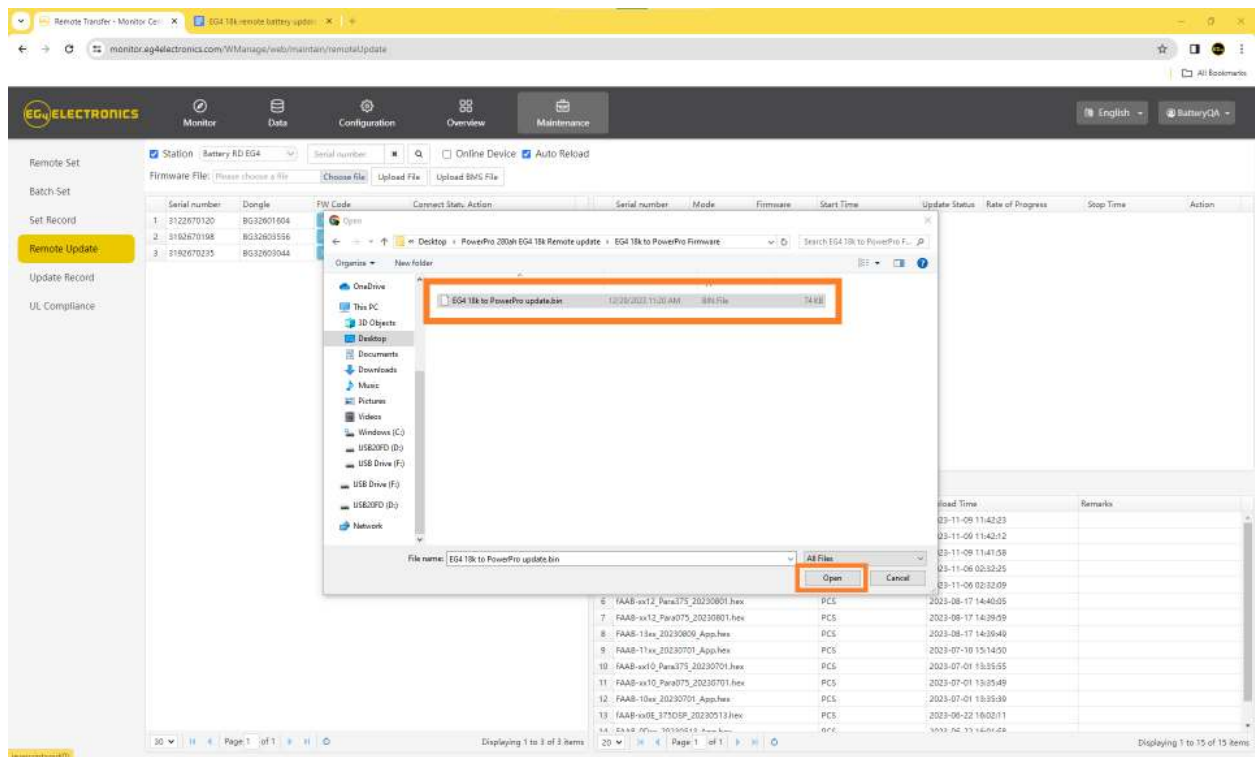
Device List:

Serial number	Dongle	FW Code	Connect Status	Action
1 2122670120	BG32601804	FAAB-EB16	Connected	Update Standard Update
2 3182670198	BG32603556	FAAB-EB16	Connected	Update Standard Update
3 3182670235	BG32603044	FAAB-EB16	Connected	Update Standard Update

Firmware File List:

Firmware File	Firmware Type	Upload Time	Remarks
1 CCAA-xxxx08_0sp_4.hex	PCS	2023-11-09 11:42:23	
2 ccaa-xx08xx_com_2.hex	PCS	2023-11-09 11:42:12	
3 CCAA-16xxxx_mosp_20231108.hex	PCS	2023-11-09 11:41:58	
4 CCAA-xxxx0A_7_4.hex	PCS	2023-11-06 02:32:25	
5 ccaa-xx08xx_3.hex	PCS	2023-11-09 02:32:09	
6 FAAB-xx12_Para175_20230801.hex	PCS	2023-08-17 14:46:05	
7 FAAB-xx12_Para075_20230801.hex	PCS	2023-08-17 14:39:09	
8 FAAB-13xx_20230800_App.hex	PCS	2023-08-17 14:36:49	
9 FAAB-11xx_20230701_App.hex	PCS	2023-07-10 15:14:50	
10 FAAB-xx10_Para175_20230701.hex	PCS	2023-07-01 13:55:55	
11 FAAB-xx10_Para075_20230701.hex	PCS	2023-07-01 13:55:49	
12 FAAB-10xx_20230701_App.hex	PCS	2023-07-01 13:55:39	
13 FAAB-xx0E_3750SP_20230513.hex	PCS	2023-06-22 16:02:11	
14 FAAB-07xx_3650SP_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28_29_30_31_32_33_34_35_36_37_38_39_40_41_42_43_44_45_46_47_48_49_50_51_52_53_54_55_56_57_58_59_60_61_62_63_64_65_66_67_68_69_70_71_72_73_74_75_76_77_78_79_80_81_82_83_84_85_86_87_88_89_90_91_92_93_94_95_96_97_98_99_100_101_102_103_104_105_106_107_108_109_110_111_112_113_114_115_116_117_118_119_120_121_122_123_124_125_126_127_128_129_130_131_132_133_134_135_136_137_138_139_140_141_142_143_144_145_146_147_148_149_150_151_152_153_154_155_156_157_158_159_160_161_162_163_164_165_166_167_168_169_170_171_172_173_174_175_176_177_178_179_180_181_182_183_184_185_186_187_188_189_190_191_192_193_194_195_196_197_198_199_200_201_202_203_204_205_206_207_208_209_210_211_212_213_214_215_216_217_218_219_220_221_222_223_224_225_226_227_228_229_230_231_232_233_234_235_236_237_238_239_240_241_242_243_244_245_246_247_248_249_250_251_252_253_254_255_256_257_258_259_260_261_262_263_264_265_266_267_268_269_270_271_272_273_274_275_276_277_278_279_280_281_282_283_284_285_286_287_288_289_290_291_292_293_294_295_296_297_298_299_300_301_302_303_304_305_306_307_308_309_310_311_312_313_314_315_316_317_318_319_320_321_322_323_324_325_326_327_328_329_330_331_332_333_334_335_336_337_338_339_340_341_342_343_344_345_346_347_348_349_350_351_352_353_354_355_356_357_358_359_360_361_362_363_364_365_366_367_368_369_370_371_372_373_374_375_376_377_378_379_380_381_382_383_384_385_386_387_388_389_390_391_392_393_394_395_396_397_398_399_400_401_402_403_404_405_406_407_408_409_410_411_412_413_414_415_416_417_418_419_420_421_422_423_424_425_426_427_428_429_430_431_432_433_434_435_436_437_438_439_440_441_442_443_444_445_446_447_448_449_450_451_452_453_454_455_456_457_458_459_460_461_462_463_464_465_466_467_468_469_470_471_472_473_474_475_476_477_478_479_480_481_482_483_484_485_486_487_488_489_490_491_492_493_494_495_496_497_498_499_500_501_502_503_504_505_506_507_508_509_510_511_512_513_514_515_516_517_518_519_520_521_522_523_524_525_526_527_528_529_530_531_532_533_534_535_536_537_538_539_540_541_542_543_544_545_546_547_548_549_550_551_552_553_554_555_556_557_558_559_560_561_562_563_564_565_566_567_568_569_570_571_572_573_574_575_576_577_578_579_580_581_582_583_584_585_586_587_588_589_590_591_592_593_594_595_596_597_598_599_600_601_602_603_604_605_606_607_608_609_610_611_612_613_614_615_616_617_618_619_620_621_622_623_624_625_626_627_628_629_630_631_632_633_634_635_636_637_638_639_640_641_642_643_644_645_646_647_648_649_650_651_652_653_654_655_656_657_658_659_660_661_662_663_664_665_666_667_668_669_670_671_672_673_674_675_676_677_678_679_680_681_682_683_684_685_686_687_688_689_690_691_692_693_694_695_696_697_698_699_700_701_702_703_704_705_706_707_708_709_710_711_712_713_714_715_716_717_718_719_720_721_722_723_724_725_726_727_728_729_730_731_732_733_734_735_736_737_738_739_740_741_742_743_744_745_746_747_748_749_750_751_752_753_754_755_756_757_758_759_760_761_762_763_764_765_766_767_768_769_770_771_772_773_774_775_776_777_778_779_780_781_782_783_784_785_786_787_788_789_790_791_792_793_794_795_796_797_798_799_800_801_802_803_804_805_806_807_808_809_810_811_812_813_814_815_816_817_818_819_820_821_822_823_824_825_826_827_828_829_830_831_832_833_834_835_836_837_838_839_840_841_842_843_844_845_846_847_848_849_850_851_852_853_854_855_856_857_858_859_860_861_862_863_864_865_866_867_868_869_870_871_872_873_874_875_876_877_878_879_880_881_882_883_884_885_886_887_888_889_890_891_892_893_894_895_896_897_898_899_900_901_902_903_904_905_906_907_908_909_910_911_912_913_914_915_916_917_918_919_920_921_922_923_924_925_926_927_928_929_930_931_932_933_934_935_936_937_938_939_940_941_942_943_944_945_946_947_948_949_950_951_952_953_954_955_956_957_958_959_960_961_962_963_964_965_966_967_968_969_970_971_972_973_974_975_976_977_978_979_980_981_982_983_984_985_986_987_988_989_990_991_992_993_994_995_996_997_998_999_1000	PCS	2023-06-22 16:02:11	

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



6. The firmware will now need to be uploaded to the online portal. Click Upload File.

The screenshot displays the EGY ELECTRONICS remote update portal. The main interface includes a navigation menu (Monitor, Data, Configuration, Overview, Maintenance) and a sidebar with options like Remote Set, Batch Set, Set Record, Remote Update (highlighted), Update Record, and UL Compliance. The main content area shows a 'Station' dropdown set to 'Battery RD EG4' and a 'Serial number' search field. Below this, there are buttons for 'Choose File', 'Upload File' (highlighted with a red box), and 'Upload BMS File'. A table lists three devices with their serial numbers, dongle IDs, PW codes, and connection status. At the bottom, a table titled 'All Type' lists various firmware files with columns for Firmware File, Firmware Type, Upload Time, and Remarks.

Serial number	Dongle	PW Code	Connect Status	Action
1 : 3122670120	BG32601904	FAAB-EB16	Connected	Update Standard Update
2 : 3182670198	BG32603556	FAAB-EB16	Connected	Update Standard Update
3 : 3182670235	BG32605044	FAAB-EB16	Connected	Update Standard Update

Firmware File	Firmware Type	Upload Time	Remarks
1 : CCAA-xxxx0B_dsp_4.hex	PCS	2023-11-09 11:42:23	
2 : ccaa-xx0Bw_com_2.hex	PCS	2023-11-09 11:42:12	
3 : CBA-15xxx_mqtt_20231105.hex	PCS	2023-11-09 11:41:58	
4 : CCAA-xxxx0A_7_4.hex	PCS	2023-11-09 02:52:25	
5 : cca-xx0Bw_2.hex	PCS	2023-11-09 02:52:09	
6 : FAAB-w12_Pwr075_20230801.hex	PCS	2023-08-17 14:40:05	
7 : FAAB-w12_Pwr075_20230801.hex	PCS	2023-08-17 14:39:52	
8 : FAAB-11w_20230801_Apps.hex	PCS	2023-08-17 14:26:40	
9 : FAAB-11w_20230701_Apps.hex	PCS	2023-07-18 15:14:50	
10 : FAAB-w10_Pwr075_20230701.hex	PCS	2023-07-01 18:35:55	
11 : FAAB-w10_Pwr075_20230701.hex	PCS	2023-07-01 18:35:49	
12 : FAAB-11w_20230701_Apps.hex	PCS	2023-07-01 18:35:30	
13 : FAAB-w10E_3750SP_20230513.hex	PCS	2023-06-22 16:02:11	
14 : CCAA-xxxx0B_dsp_4_...	PCS	2023-11-09 11:42:23	

7. The firmware file has now been uploaded to the portal. 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 has to be done to unbrick the bms.

The screenshot shows the EGY4 ELECTRONICS web portal interface for managing BMS firmware. The main content area is titled 'Station: Battery RD EG4' and includes a search bar for 'Serial number' and a checkbox for 'Online Device'. A 'Current Firmware' banner at the top right indicates 'EG4 16k to PowerPro update.bin - 100'. Below this, there are buttons for 'Firmware File: (Please choose a file)', 'Choose File', 'Upload File', and 'Upload BMS File'. A table lists three devices with their serial numbers, dongle IDs, and firmware codes (FAAB-EB16). The 'Remote Update' button is highlighted in the left sidebar. At the bottom, there is a table of uploaded firmware files with columns for 'Firmware File', 'Firmware Type', 'Upload Time', and 'Remarks'.

Serial number	Dongle	FW Code	Connect Status	Action
1: 2122670120	BG32601604	FAAB-EB16	Connected	Update Standard Update
2: 2182670198	BG32603556	FAAB-EB16	Connected	Update Standard Update
3: 2182670225	BG32603044	FAAB-EB16	Connected	Update Standard Update

Firmware File	Firmware Type	Upload Time	Remarks
1: CCAA-xxxx0B_dep_4.hex	PCS	2023-11-09 11:42:23	
2: ccaa-xx0Bxx_com_2.hex	PCS	2023-11-09 11:42:12	
3: CBA-16xxx_mcpk_20231109.hex	PCS	2023-11-09 11:41:58	
4: CCAA-xxxx0A_7_4.hex	PCS	2023-11-06 02:52:25	
5: ccaa-xx0Axx_3.hex	PCS	2023-11-06 02:52:09	
6: FAAB-xx12_Para175_20230801.hex	PCS	2023-08-17 14:40:05	
7: FAAB-13xx_20230801_App.hex	PCS	2023-08-17 14:39:59	
8: FAAB-13xx_20230801_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_Para175_20230701.hex	PCS	2023-07-01 13:55:55	
11: FAAB-xx10_Para175_20230701.hex	PCS	2023-07-01 13:55:49	
12: FAAB-10xx_20230701_App.hex	PCS	2023-07-01 13:55:39	
13: FAAB-xx0E_375058_20230513.hex	PCS	2023-06-22 18:02:11	
14: CCAA-xxxx0A_7_4.hex	PCS	2023-11-09 11:42:12	

8. In this guide the EG4 18k inverter station that will be updating the EG4 PowerPro is station #1.

The screenshot displays the EG4 Electronics web interface for remote firmware updates. The top navigation bar includes 'Monitor', 'Data', 'Configuration', 'Overview', and 'Maintenance'. The current page is 'Remote Update' for a 'Station: Battery RD EG4'. The 'Current Firmware' is 'EG4 18k to PowerPro update.bin - 100'. The interface shows a list of stations with columns for 'Serial number', 'Mode', 'Firmware', 'Start Time', 'Update Status', 'Rate of Progress', 'Stop Time', and 'Action'. Two stations are listed, both with 'Connected' status and 'Update' action. The first station is highlighted with a red box. Below the station list is a 'Firmware File' upload section with 'Choose File', 'Upload File', and 'Upload BMS File' buttons. A 'Remote Update' button is also visible. At the bottom, there is a table titled 'All Type' showing a list of firmware files with columns for 'Firmware File', 'Firmware Type', 'Upload Time', and 'Remarks'. The table contains 15 entries, with the first three rows visible.

Serial number	Mode	Firmware	Start Time	Update Status	Rate of Progress	Stop Time	Action
1 3122670120	9G32601604	FAAB-EB16	Connected	Update	Standard Update		
3 3192670235	9G32603044	FAAB-EB16	Connected	Update	Standard Update		

Firmware File	Firmware Type	Upload Time	Remarks
1 CCAA-xxxx0B_dsp_4.hex	PCS	2023-11-09 11:42:23	
2 rcaa-w08w_com_2.hex	PCS	2023-11-09 11:42:12	
3 CBA4-16xxx_mqtt_20231105.hex	PCS	2023-11-09 11:41:58	
4 CCA4-xxxx0A_7_4.hex	PCS	2023-11-06 02:52:25	
5 cca4-w08w_2.hex	PCS	2023-11-06 02:52:09	
6 FAAB-w12_Pwr075_20230801.hex	PCS	2023-08-17 14:40:05	
7 FAAB-w12_Pwr075_20230801.hex	PCS	2023-08-17 14:39:52	
8 FAAB-11w_20230801_Apps.hex	PCS	2023-08-17 14:26:40	
9 FAAB-11w_20230701_Apps.hex	PCS	2023-07-18 15:14:50	
10 FAAB-w10_Pwr075_20230701.hex	PCS	2023-07-01 18:35:55	
11 FAAB-w10_Pwr075_20230701.hex	PCS	2023-07-01 18:35:49	
12 FAAB-10w_20230701_Apps.hex	PCS	2023-07-01 18:35:30	
13 FAAB-w08_3750SP_20230513.hex	PCS	2023-06-22 16:02:11	
14 CCA4-xxxx0A_7_4.hex	PCS	2023-11-06 02:52:25	

- Last click Update under the Action tab. A progress bar will appear. The Rate of Progress will begin from 0% to 100%. This is a status for the file being downloaded to the EG4 18k Inverter. When this status bar reaches 100% this is NOT an indication that the battery update is complete.

The screenshot shows the 'Remote Update' section of the EGY ELECTRONICS web interface. The main table displays the update progress for three devices. The first device, with serial number 3122670120, is currently updating, with a progress bar at 18% and a rate of 18 / 100. The 'Update' button in the 'Action' column is highlighted with a red box.

Serial number	Mode	Firmware	Start Time	Update Status	Rate of Progress	Stop Time	Action
3122670120	Normal	EG4 18k to Powr	2024-01-02 14:56:55	Updating	18% / 100		Cancel
3192670198							Update Standard Update
3192670235							Update Standard Update

Firmware File	Firmware Type	Upload Time	Remarks
1 CCAA-xxxx0B_dsp_4.hex	PCS	2023-11-09 11:42:23	
2 rras-w08w_com_2.hex	PCS	2023-11-09 11:42:12	
3 CBA4-16xxx_mpeg_20231105.hex	PCS	2023-11-09 11:41:58	
4 CCAA-xxxx0A_7_4.hex	PCS	2023-11-09 02:52:25	
5 cca4-w08w_2.hex	PCS	2023-11-09 02:52:09	
6 FAAB-w12_Pwr075_20230801.hex	PCS	2023-08-17 14:40:05	
7 FAAB-w12_Pwr075_20230801.hex	PCS	2023-08-17 14:39:52	
8 FAAB-11w_20230801_Apps.hex	PCS	2023-08-17 14:26:40	
9 FAAB-11w_20230701_Apps.hex	PCS	2023-07-18 15:14:50	
10 FAAB-w10_Pwr075_20230701.hex	PCS	2023-07-01 18:35:55	
11 FAAB-w10_Pwr075_20230701.hex	PCS	2023-07-01 18:35:49	
12 FAAB-11w_20230701_Apps.hex	PCS	2023-07-01 18:35:30	
13 FAAB-w08_37505P_20230513.hex	PCS	2023-06-22 16:02:11	
14 CCAA-xxxx0A_7_4.hex	PCS	2023-11-09 02:52:25	

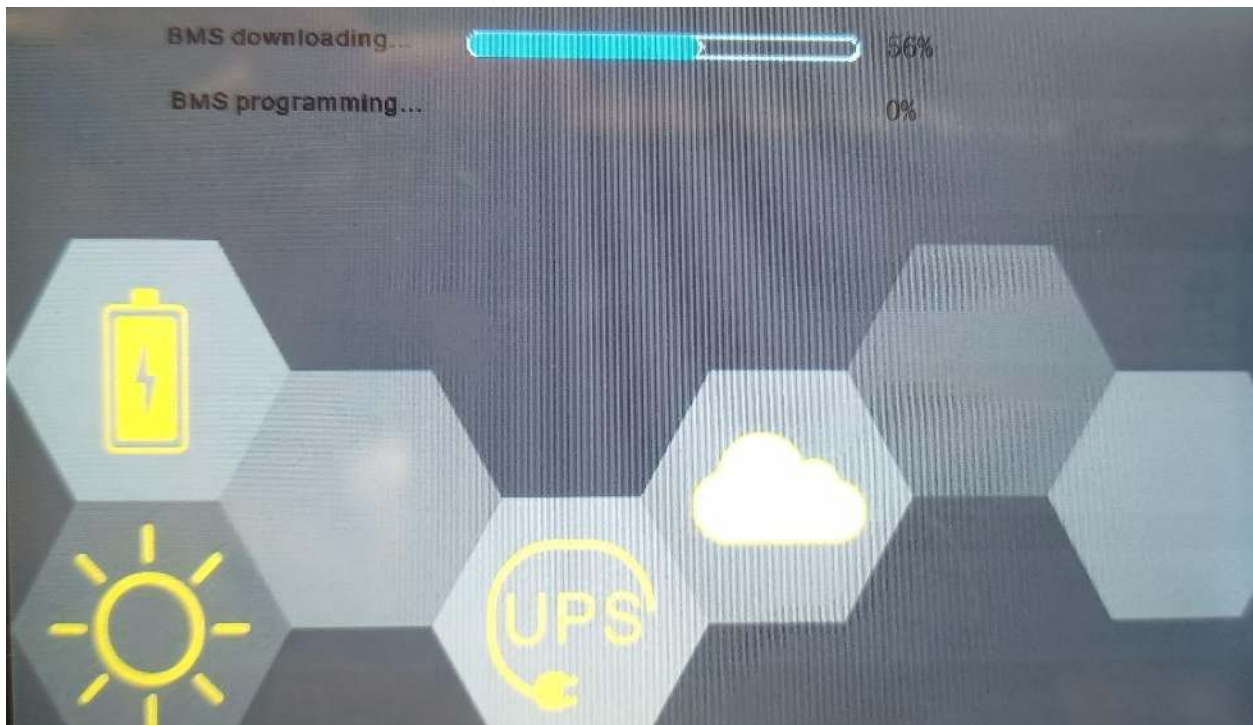
10. After the file has been downloaded to the inverter Update status will show Success. At this point do not cancel or power off the inverter or battery. The actual battery programming will begin.

The screenshot displays the 'Remote Update' section of the EGY ELECTRONICS web management system. The interface includes a navigation menu with 'Monitor', 'Data', 'Configuration', 'Overview', and 'Maintenance'. The main content area shows a table of devices being updated. The first device, with serial number 3122670120, is highlighted with a red box, indicating a successful update. The 'Update Status' column shows 'Success', and the 'Rate of Progress' is '100% / 100'. Below the main table, there is a list of firmware files with columns for 'Firmware File', 'Firmware Type', 'Upload Time', and 'Remarks'. The current firmware is identified as 'EG4 18k to PowerPro update.bin - 100'.

Serial number	Mode	Firmware	Start Time	Update Status	Rate of Progress	Stop Time	Action
3122670120	Normal	EG4 18k to Pow	2024-01-02 14:56:55	Success	100% / 100	2024-01-02 14:59:06	Cancel

Firmware File	Firmware Type	Upload Time	Remarks
CCAA-xxxx0B_dsp_4.hex	PCS	2023-11-09 11:42:23	
ccaa-wx0Bw_com_2.hex	PCS	2023-11-09 11:42:12	
CBA4-16xxx_mpeg_20231105.hex	PCS	2023-11-09 11:41:58	
CCAA-xxxx0A_7_4.hex	PCS	2023-11-06 02:52:25	
ccaa-wx0Bw_3.hex	PCS	2023-11-06 02:52:09	
FAAB-wx12_Paw075_20230801.hex	PCS	2023-08-17 14:40:05	
FAAB-wx12_Paw075_20230801.hex	PCS	2023-08-17 14:39:52	
FAAB-11xx_20230801_Apps.hex	PCS	2023-08-17 14:26:40	
FAAB-11xx_20230701_Apps.hex	PCS	2023-07-18 15:14:50	
FAAB-wx10_Paw075_20230701.hex	PCS	2023-07-01 18:35:55	
FAAB-wx10_Paw075_20230701.hex	PCS	2023-07-01 18:35:49	
FAAB-11xx_20230701_Apps.hex	PCS	2023-07-01 18:35:30	
FAAB-wx08_37505P_20230513.hex	PCS	2023-06-22 16:02:11	
FAAB-11xx_20230701_Apps.hex	PCS	2023-07-18 14:06:26	

11. This is the EG4 18k inverter screen whenever the file is downloading to the inverter. BMS downloading progress bar will continue to fill to 100%.



12. This is the EG4 18k inverter screen whenever the BMS programming is actually occurring. After this status bar reaches 100% the PowerPro battery has been updated and will automatically restart.

