

EG4[®] LL-S 51.2V 100AH

RSD RS232 UPDATE GUIDE



IMPORTANT:

- Read this guide thoroughly before updating the EG4[®] LL-S. Failure to do so can result in a soft-bricked BMS.
- Do not disconnect the RS232 cable during the update or have the computer power off. This will lead to a soft-bricked BMS.
- Remove all CAT communication cables between the Battery-Comm ports that are paralleling each battery. Failure to do so will result in a soft-bricked BMS if attempting to RS232 update multiple batteries at the same time.
- Only power on the BMS of the EG4 LL-S battery being updated one at a time. Failure to do so will result in a soft-bricked BMS if attempting to RS232 update multiple batteries at the same time.

Before starting the update, navigate to www.eg4electronics.com, select “Our Products”, and scroll to the EG4 LL-S battery to find the latest firmware, locate the “Firmware” section towards the bottom of the product page and select it. Select the firmware file and begin the download. Once the download is complete, extract the files to an easily accessible location. These files will be needed throughout the update.






The RS485 LCD Update will always use the RS485 RJ45 Port.



The RS232 BMS Update will always use the Battery-Comm RJ45 Port.

UPDATE INSTRUCTIONS

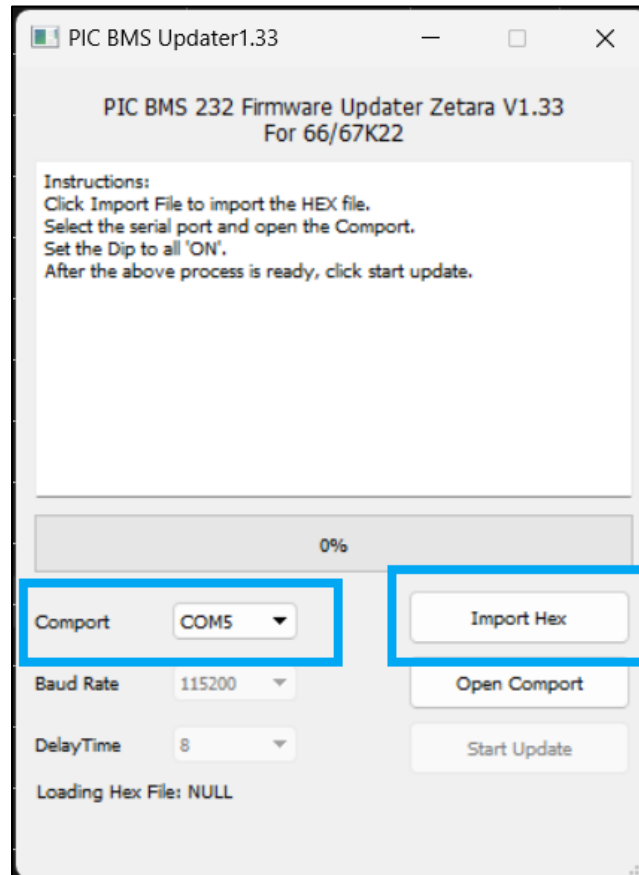
1. Using an RS232 to USB-A cable, connect the RJ45 (Pins 4-Rx, 5-Tx) to the Battery-Comm port on the EG4 LL-S to the USB-A port on a Windows computer.
2. Set the battery's DIP switch ID being updated to ID:1.
3. Power on only the BMS on the EG4 LL-S with the BMS switch (ON/OFF button).
4. Open the "EG4 LL-S RS232 Updater" folder.

Name	Status	Date modified	Type
Battery Guides and Firmwares		2025-03-25 3:01 PM	File
DOCS		2025-03-31 11:05 AM	File
EG4 LL-S RS232 Updater		2025-04-14 11:34 AM	File
Support Tools		2025-03-25 1:57 PM	File
51.2V280Ah 200amp Chargingdischarging		2025-04-09 10:54 AM	Te



5. Open the “EG4 LL-S RS232 Updater.exe”

Name	Status	Date modified	Type
iconengines	✓	2025-04-14 11:16 AM	File
imageformats	✓	2025-04-14 11:16 AM	File
platforms	✓	2025-04-14 11:16 AM	File
EG4 LL-S RS232 Updater	✓	2025-04-14 11:16 AM	Ap
icudt53.dll	✓	2025-04-14 11:16 AM	Ap
icuin53.dll	✓	2025-04-14 11:16 AM	Ap
icuuc53.dll	✓	2025-04-14 11:16 AM	Ap
libgcc_s_dw2-1.dll	✓	2025-04-14 11:16 AM	Ap
libstdc++-6.dll	✓	2025-04-14 11:16 AM	Ap
libwinpthread-1.dll	✓	2025-04-14 11:16 AM	Ap

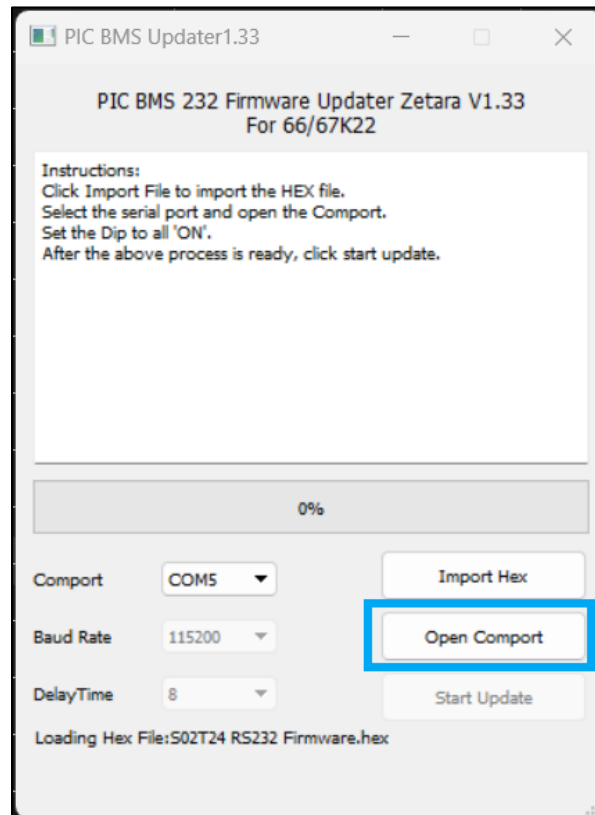
6. Confirm that the “Comport” is set correctly for the RS232 cable that Windows has assigned. Select “Import Hex”.



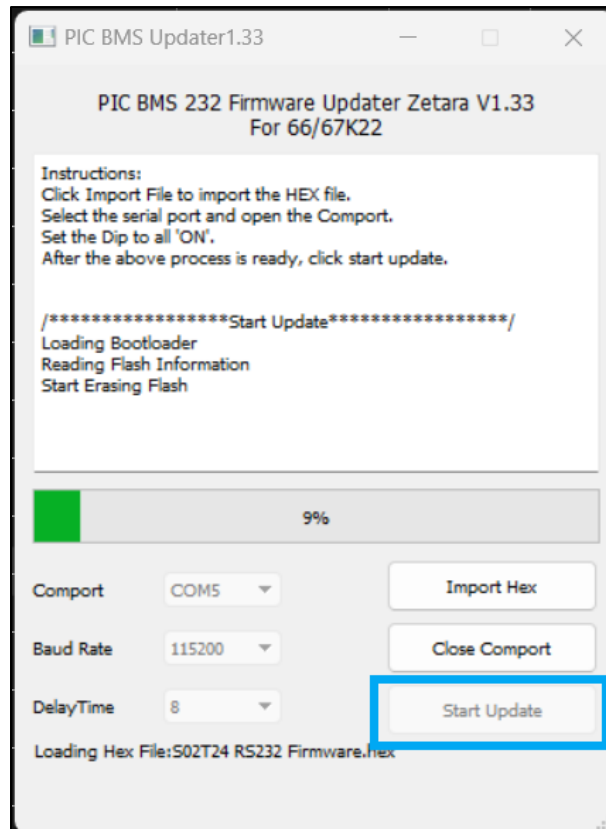
7. File explorer will now open, navigate to the “EG4 LL-S RS232 Firmware” folder, choose the file “S02T24 RS232 Firmware.hex”. Click Open.

Name	Status	Date modified	Type
 S02T24 EG4LLS RS232 Firmware.hex		2025-04-14 11:43 AM	HEX F

8. Once the file has been loaded into the updater, select “Open Comport”.



9. Select "Start Update".



10. Once the update is complete, “update finish, exit BootLoader” will be displayed in the prompt. Select “Close Comport”. Next, exit the application.

