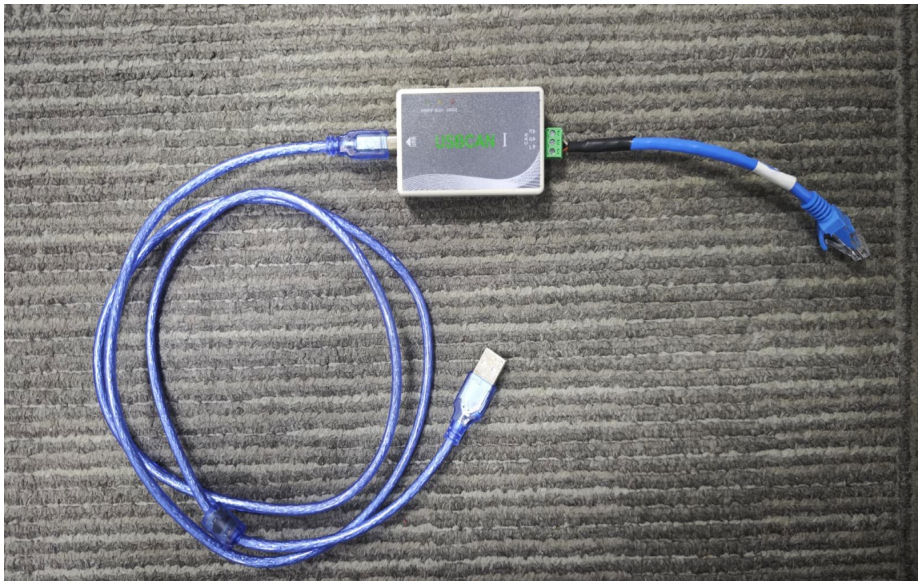
eBoost Firmware Update Procedure

Pre-Requirements

To perform firmware update procedure ont the eBoost battery, you will need the following:

1. Windows Laptop Computer
2. USB CANtool
    a. You may request this tool by submitting a ticket on the support section at www.fortresspower.com/support



Download the firmware and instructions before arriving to the site. You may download these files at www.fortresspower.com/firmware. Try to consolidate your files under one folder called "**eBoost CAN Upgrade Package**" for ease of access. **Extract all files.**

3. Install Microsoft.Visual.C++.8.0 located in the folder
4. Install Microsoft.Visual.C++.9.0 located in the folder

Installing the Drivers for the CANtool (USBCAN)

1. Connect the USB cable of the CANtool (USBCAN) to your computer and the CANtool by itself.
2. Install USBCAN_AllInOne_x86_x64_2.0.0.1

Firmware Update Pre-Check

1. There must be no current flow to or from any battery in the system during the firmware update process. All battery breakers on the inverters in the system in the 'OFF' position.

2. Firmware must be updated on one battery at a time. Please disconnect the battery communication cables from each other.
3. Make sure that both cables that came with the CANtool (USBCAN) are connected to the CANtool. Then, make sure that the USB cable is connected to the computer and that the ethernet cable is connected to either of the two rj45 ports.
4. Turn off the inverter battery breakers. In off-grid applications, this will shut down the loads.

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5. Remove the Terminator from the single battery or the last battery of the parallel system. .
6. Insert the CAN TOOL at the port where the terminator was removed.

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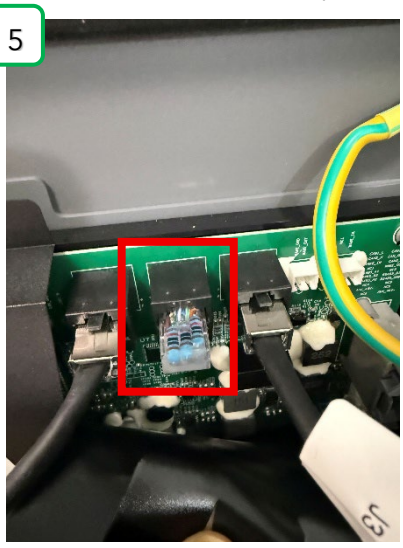

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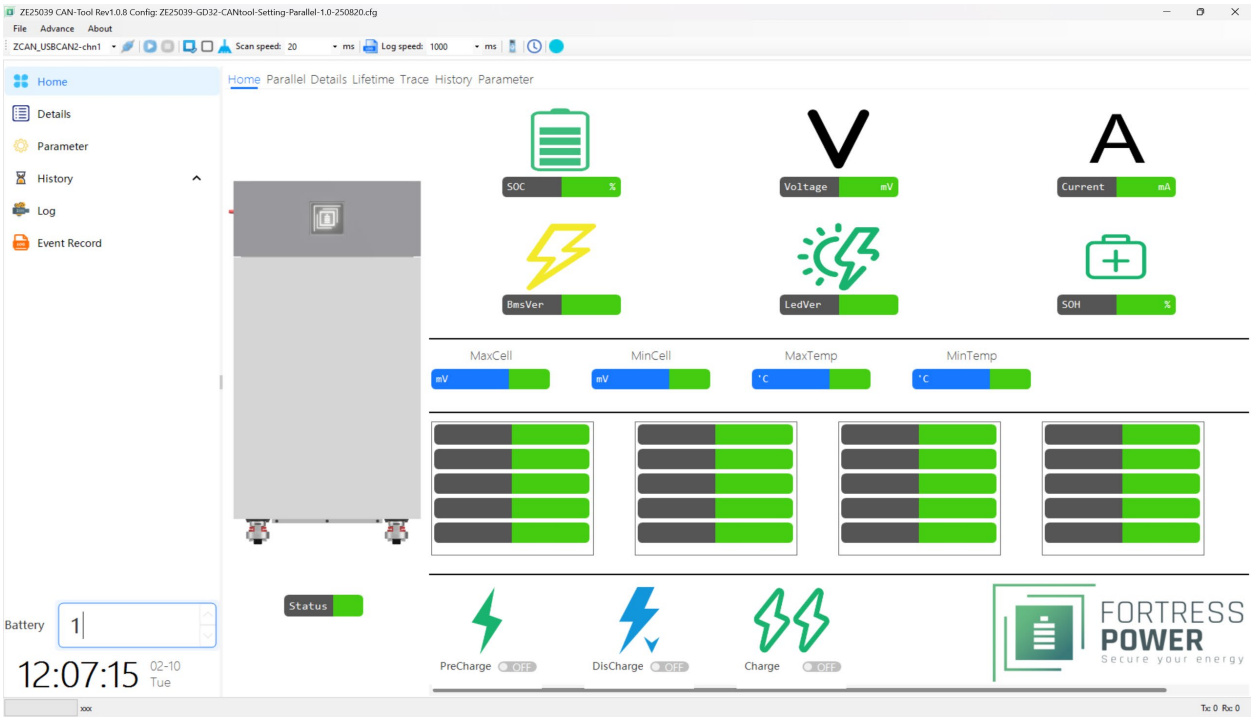
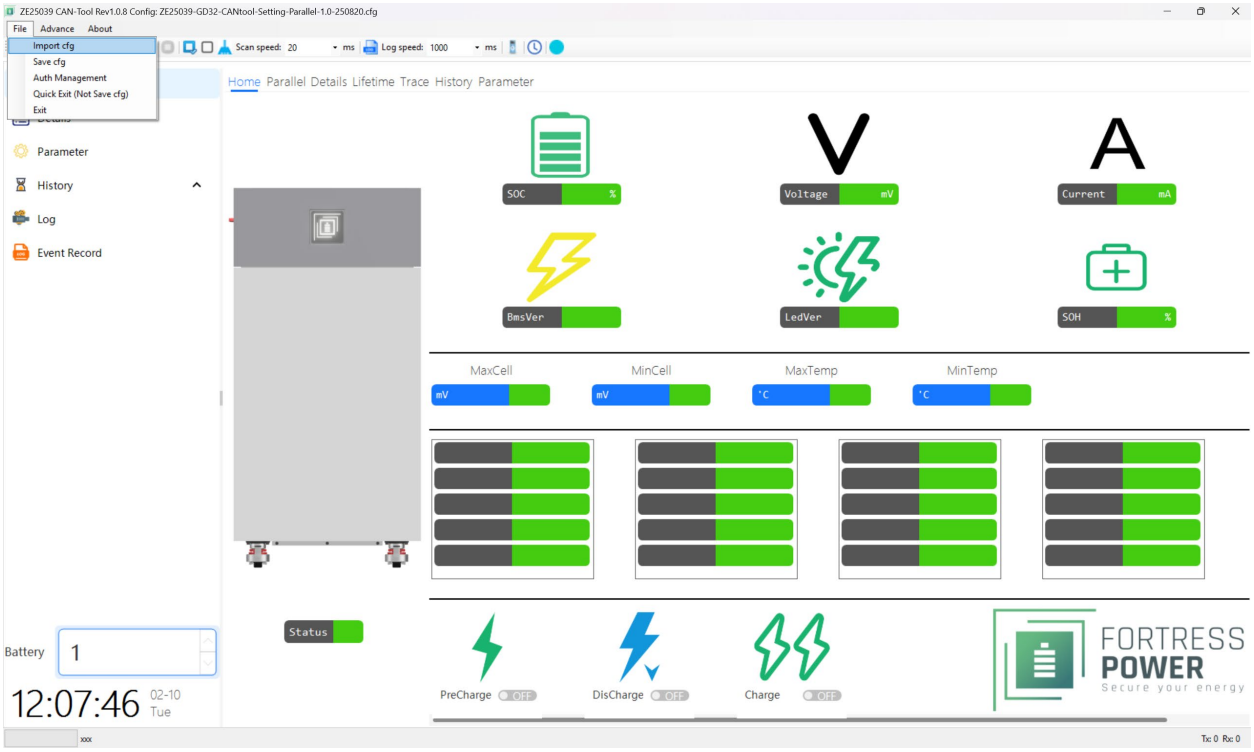
FIRMWARE UPDATE

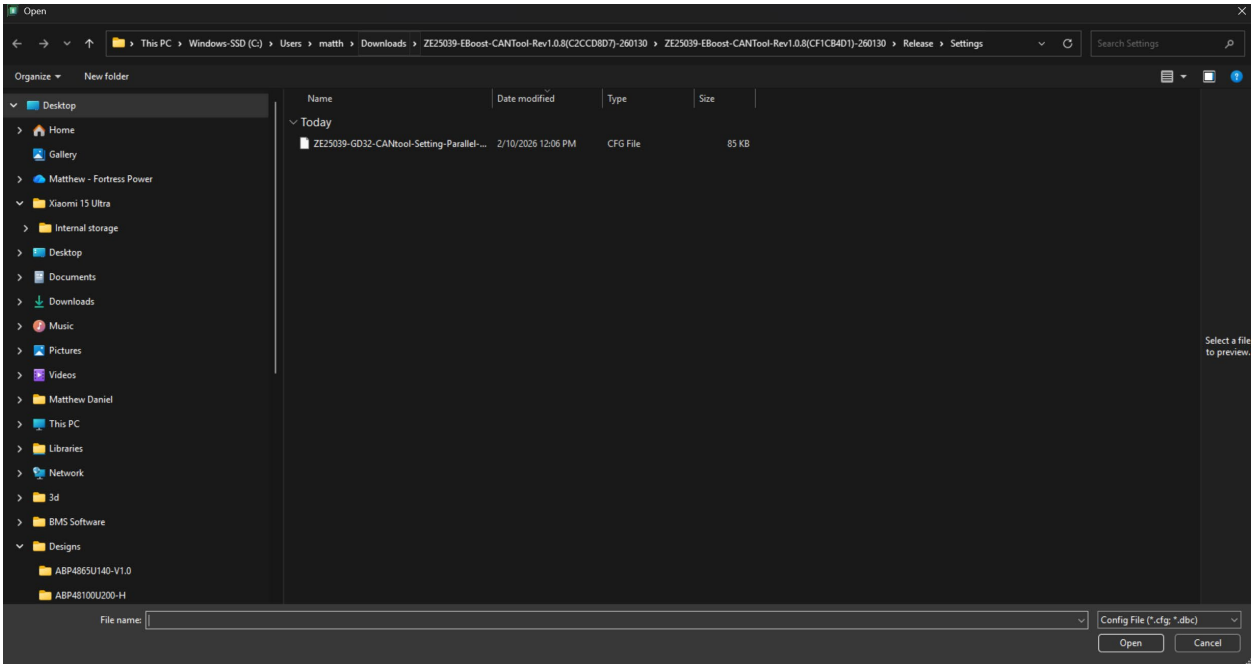
7. Open the computer software under the Upper Computer Software folder. Select the CANTOOL file. The home page will appear.



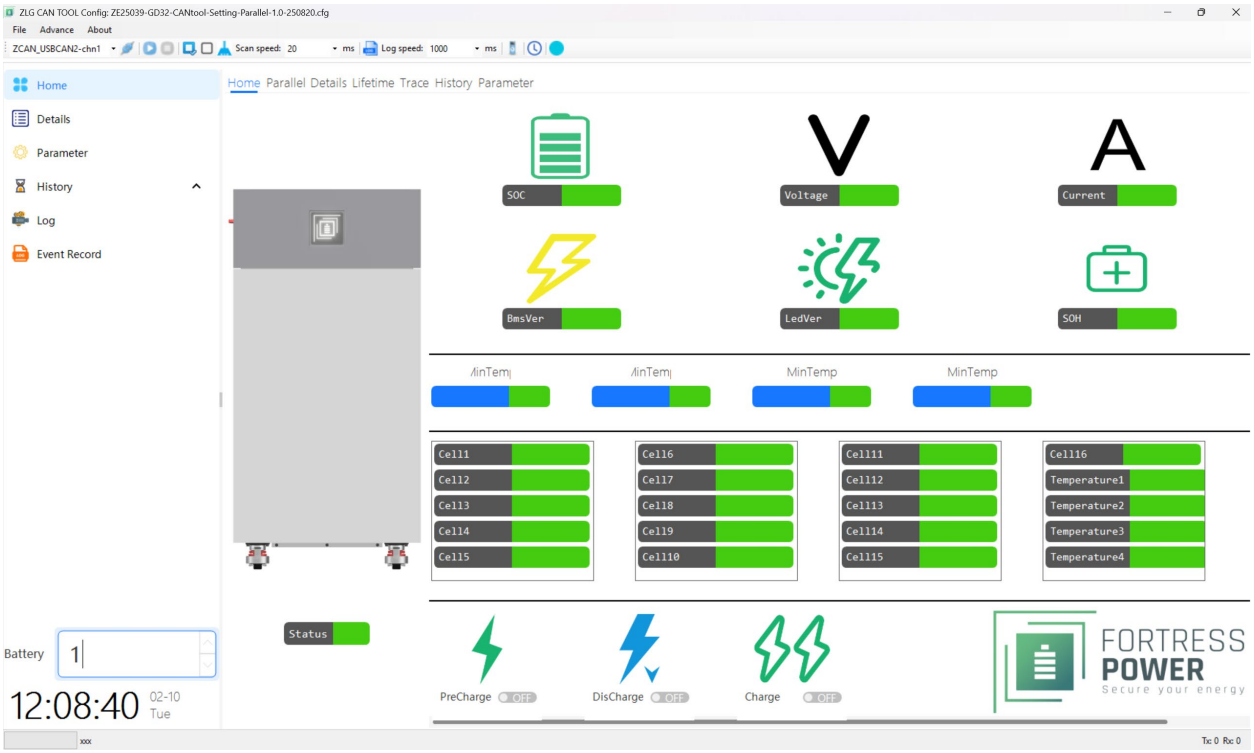
8. Go to the "**File**" section and click on "**Import cfg**"



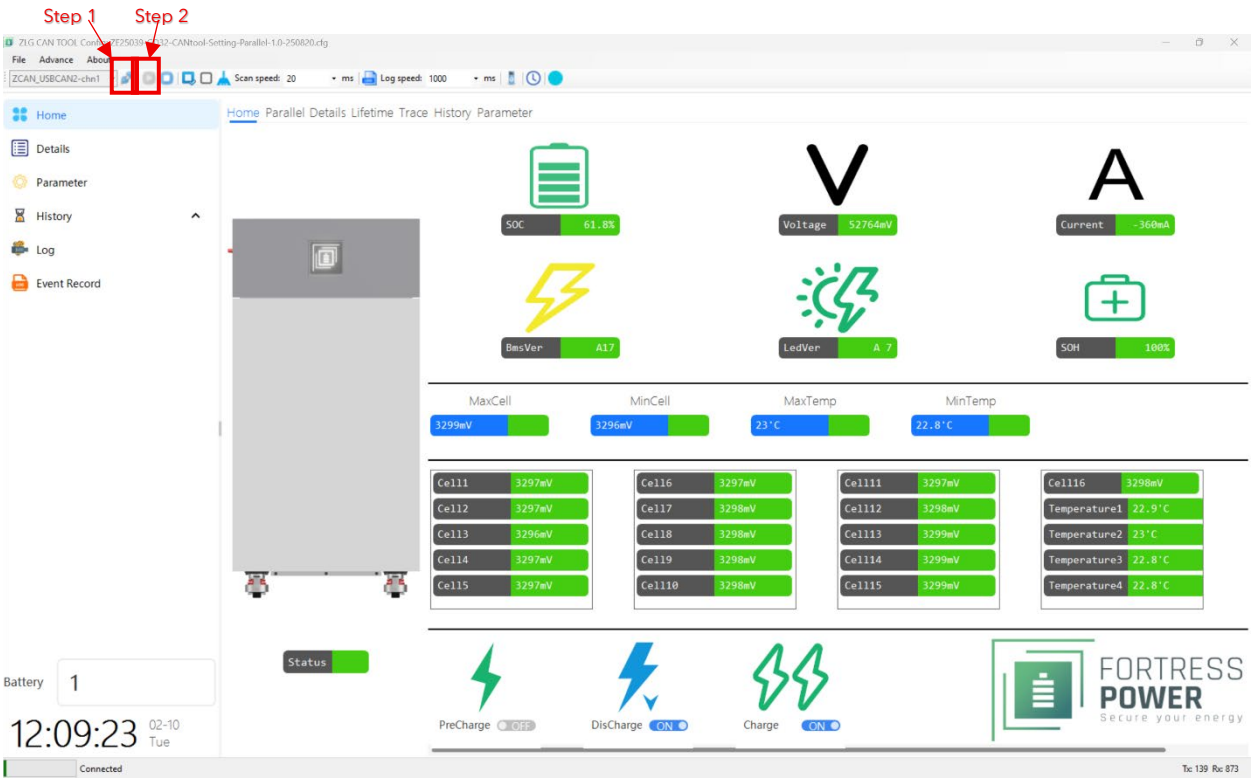
9. Select and open the file "**ZE25039-GD32-CANtool-setting-parallel**"



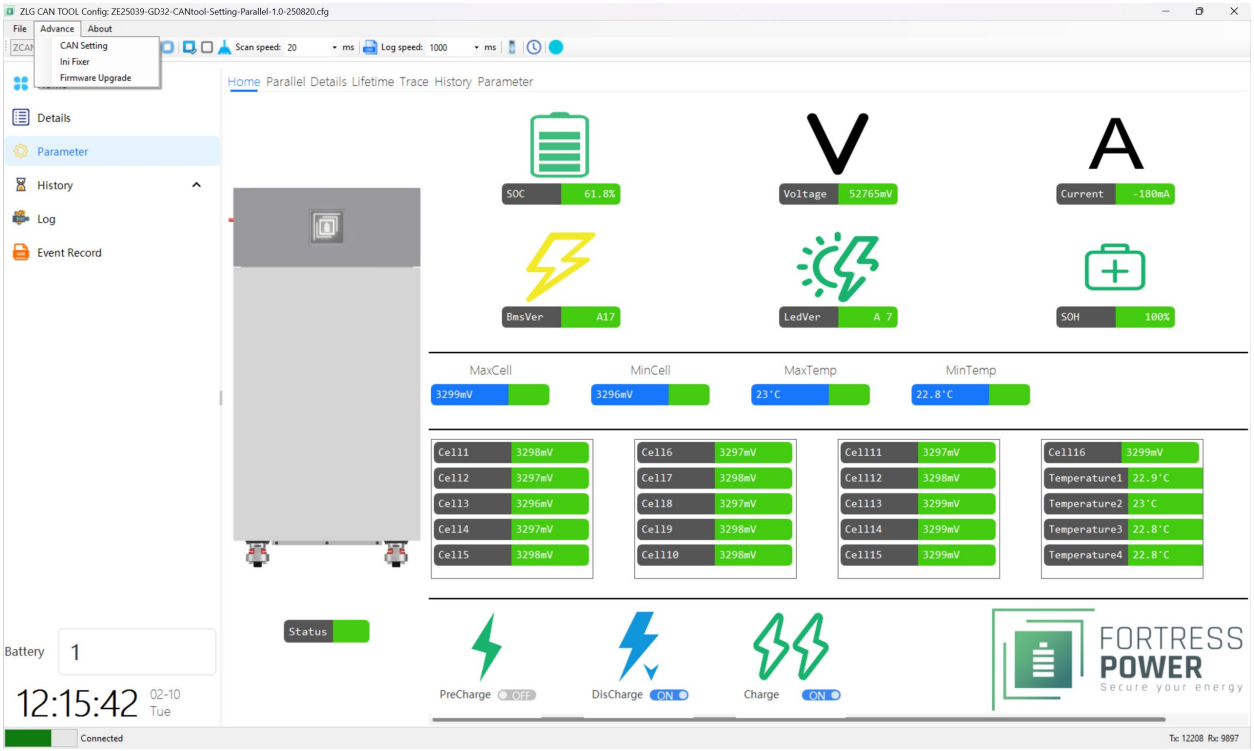
10. After you open the file, you will notice that the parameter displays changes.



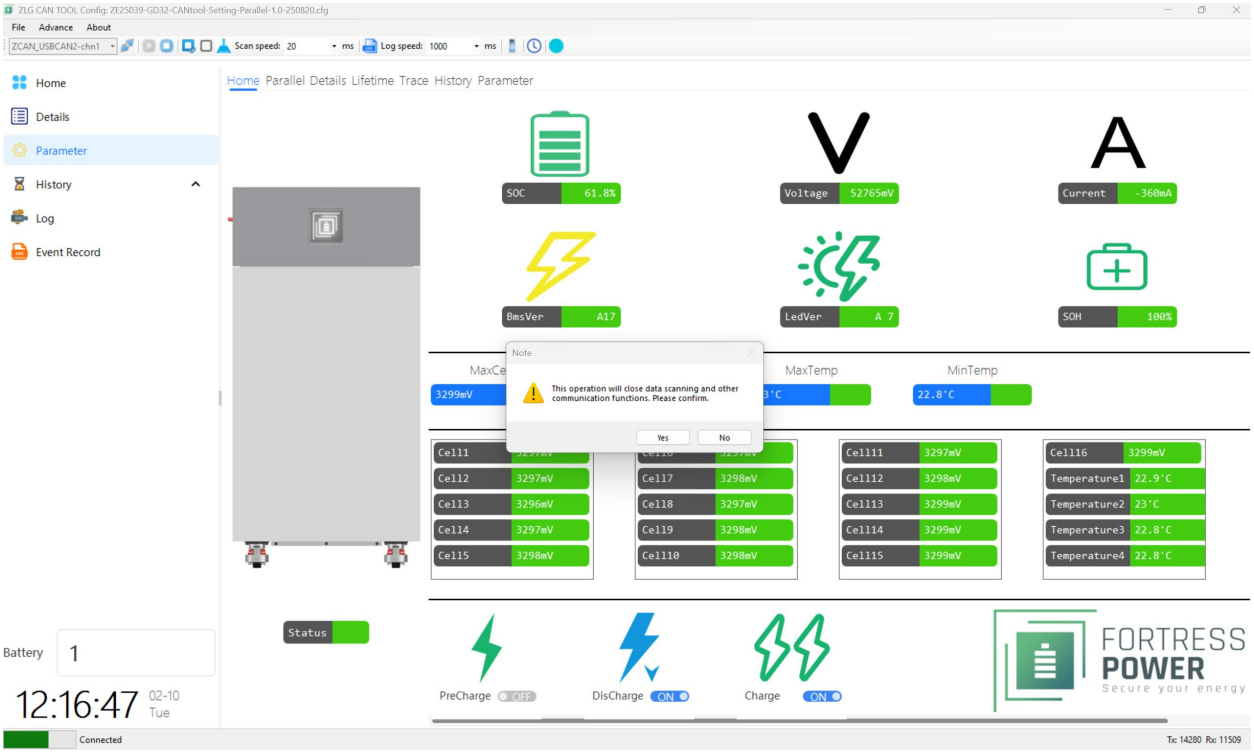
11. Select the "**Connect**" indicated in **step 1**, then select the "**Read**" button indicated in "**Step 2**" button



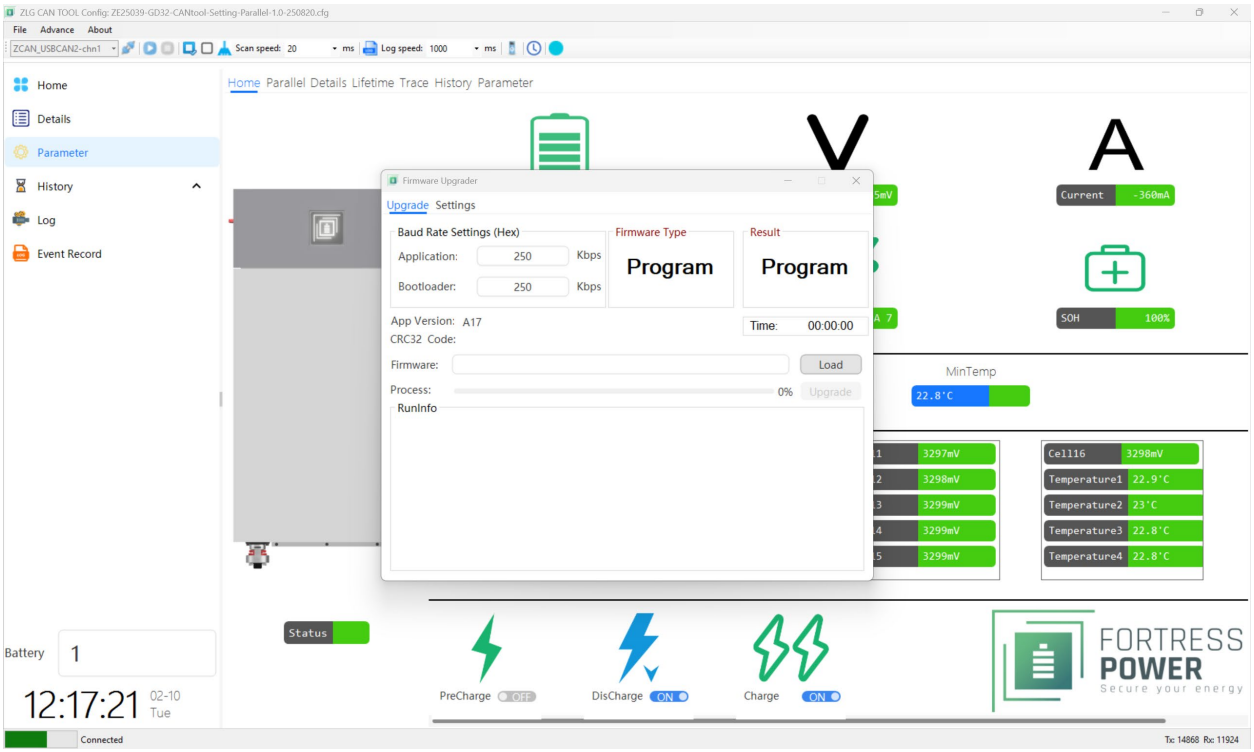
12. Go to the "**Advanced**" section and select "**Firmware Upgrade**"



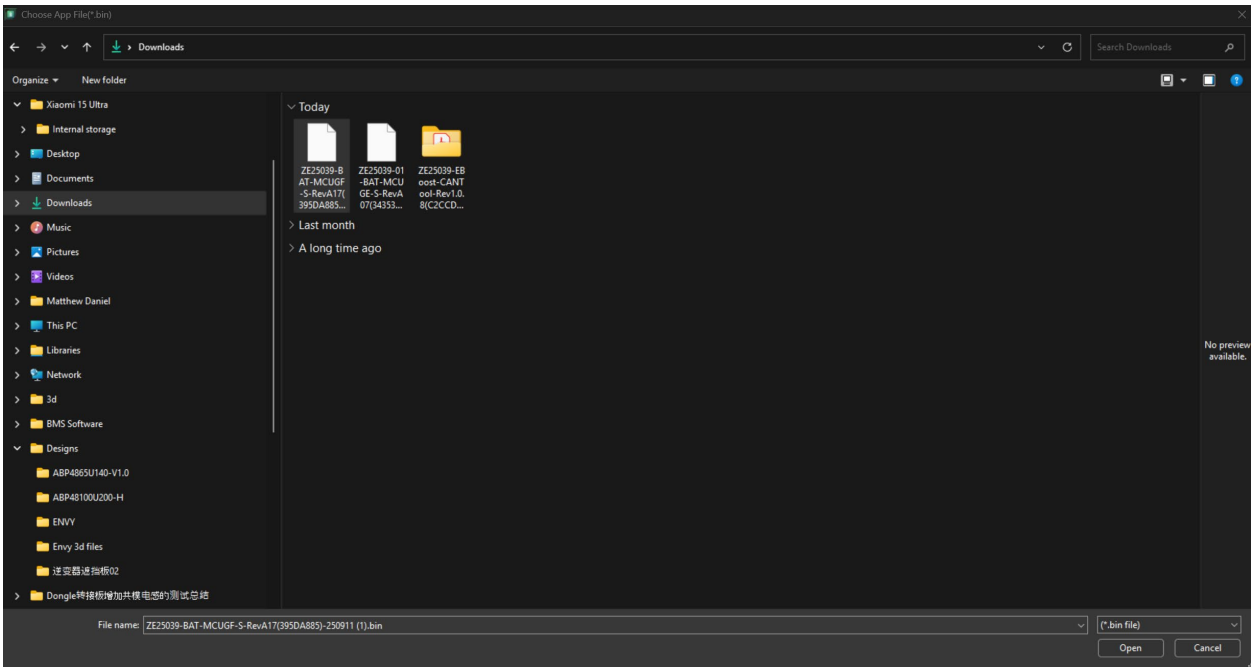
13. A message prompt will appear, please select "**yes"**.

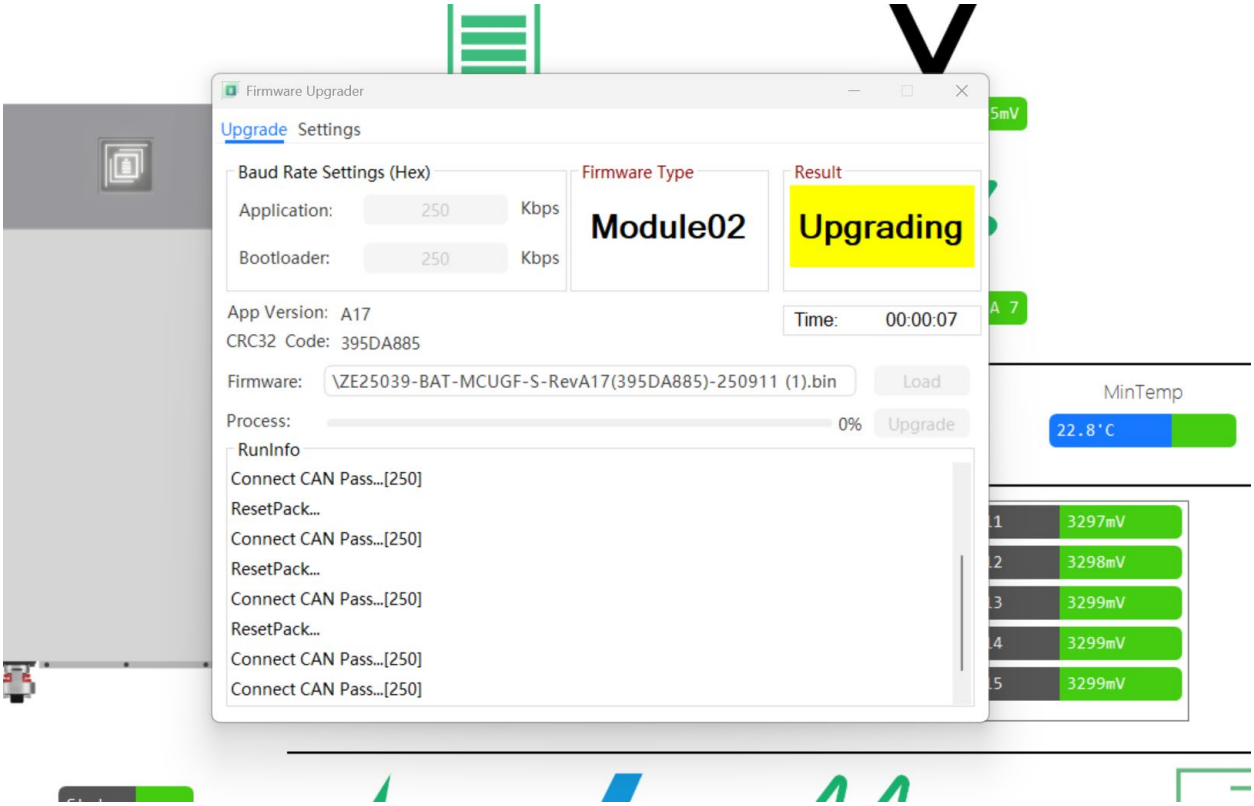


14. Select Load, and open the firmware file

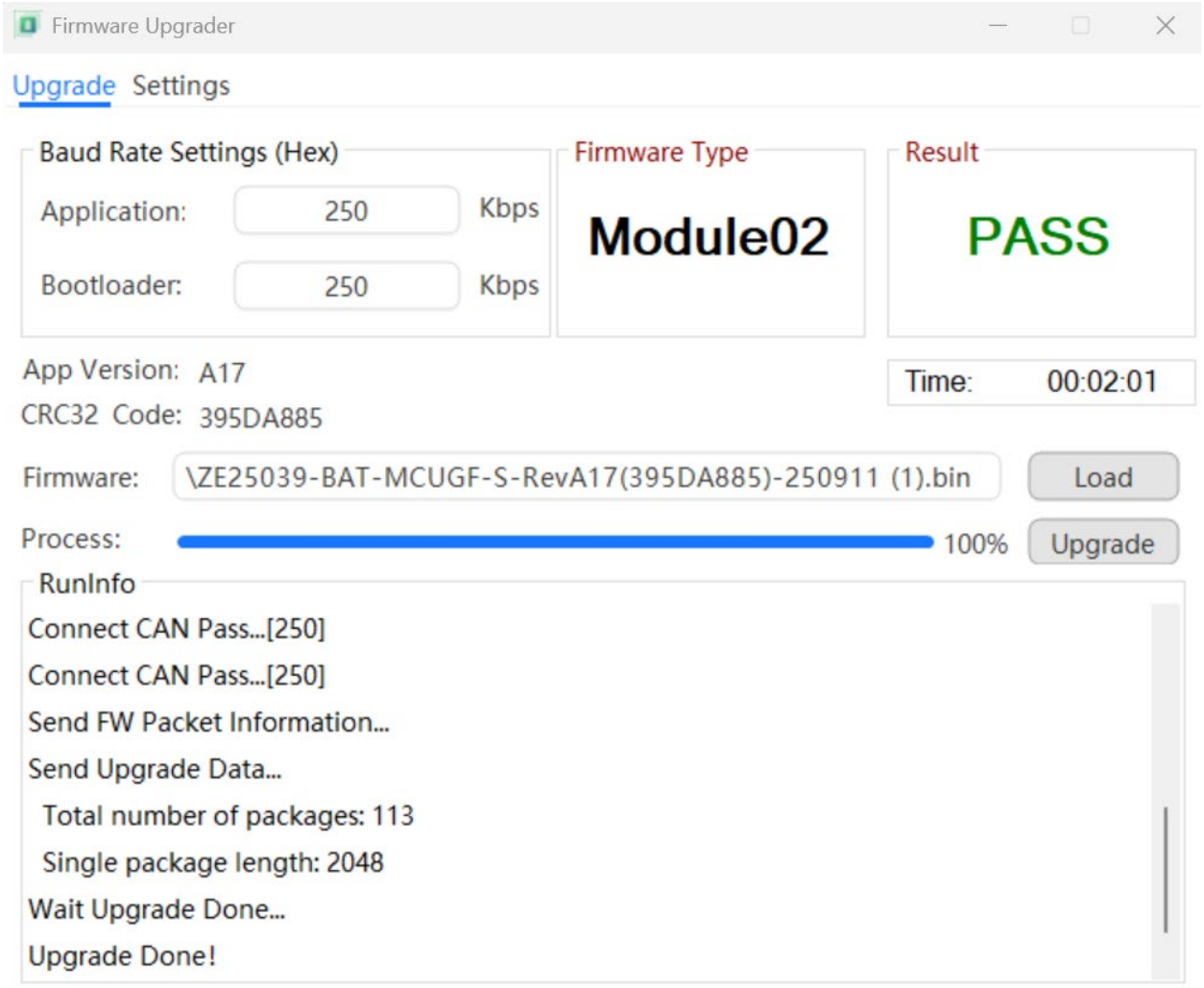


15. Select the Upgrade button. An upgrade message will appear following the percentage bar progressing. The update takes about 2 minutes. DO NOT INTERRUPT THE UPDATE PROGRESS.





16. To confirm that the update progresses a finalized:
    a) Under the result tab, you will see a PASS message
    b) Progress bar reached 100%
    c) Battery rebooted



17. Finally remove the Can Tool and recommission the system.