PROCEDURE

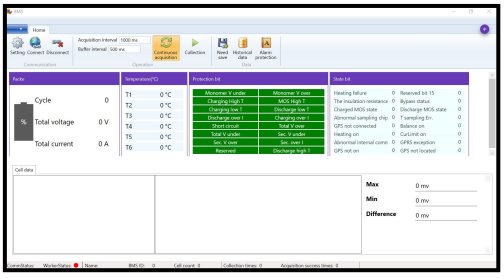
Reference:	PR20220401-01		
Version:	01.1	Category:	E

MODEL(S)	GOAL	
All new type lithium battery pack	Quality improvement	
	Performance	√
	Upgrade	√
PARTS INFO	Down time	
Data transfer cable for Lithium battery interface software	Maintenance	√
	Work around	√
	Others:	

VERSION CONTROL:			
Author:	**Version:**	**Date:**	**Change/update:**
Arvin	01.1	2022/04/16	update

TITLE
How to reflash the BMS board by RS485 communications

TOOLS REQUIRED



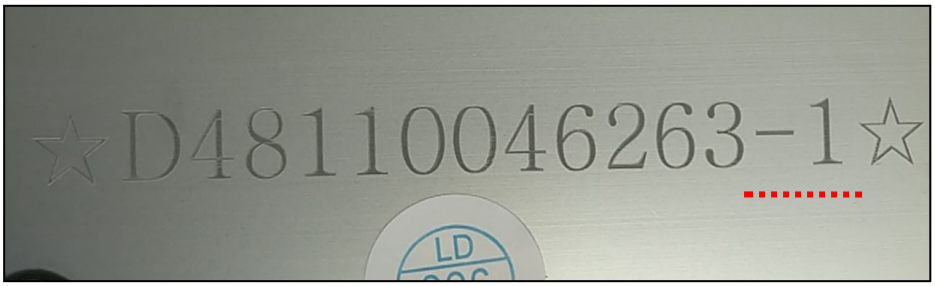
- Laptop (Win 7 or up)
- Data transfer cable for Lithium battery interface software
- Lithium battery interface software

PROCEDURE			
Reference:	PR20220401-01		
Version:	01.1	Category:	E

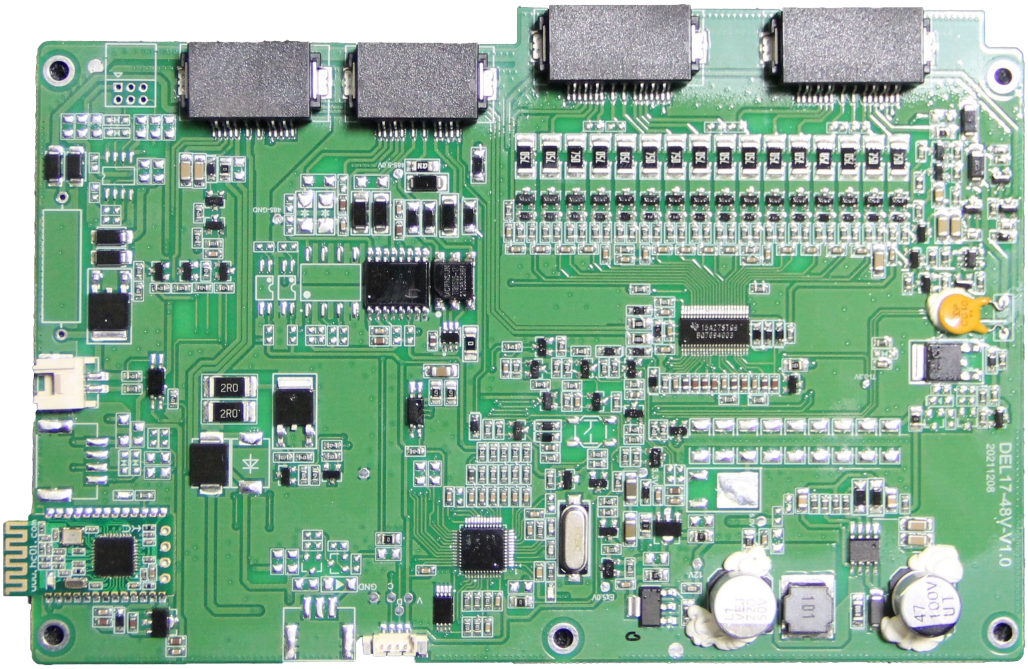
Note: Please read the information before conducting the procedures below

- **These procedures only apply to the new type BMS board.**
- **How to distinguish the new type BMS board:**

1. Check the battery serial number. The serial number of the lithium batteries which have new type BMS board will be ending with "-1".

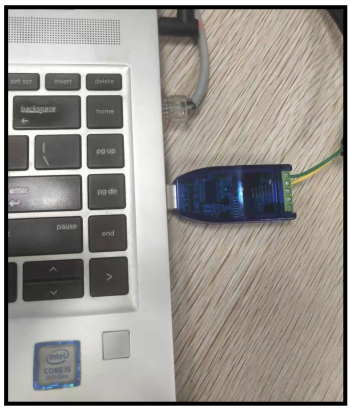


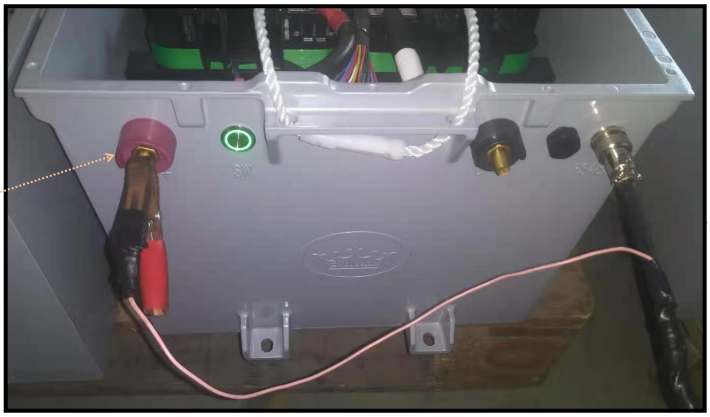
2. Inspect the BMS board connectors, see the image for new type BMS board.



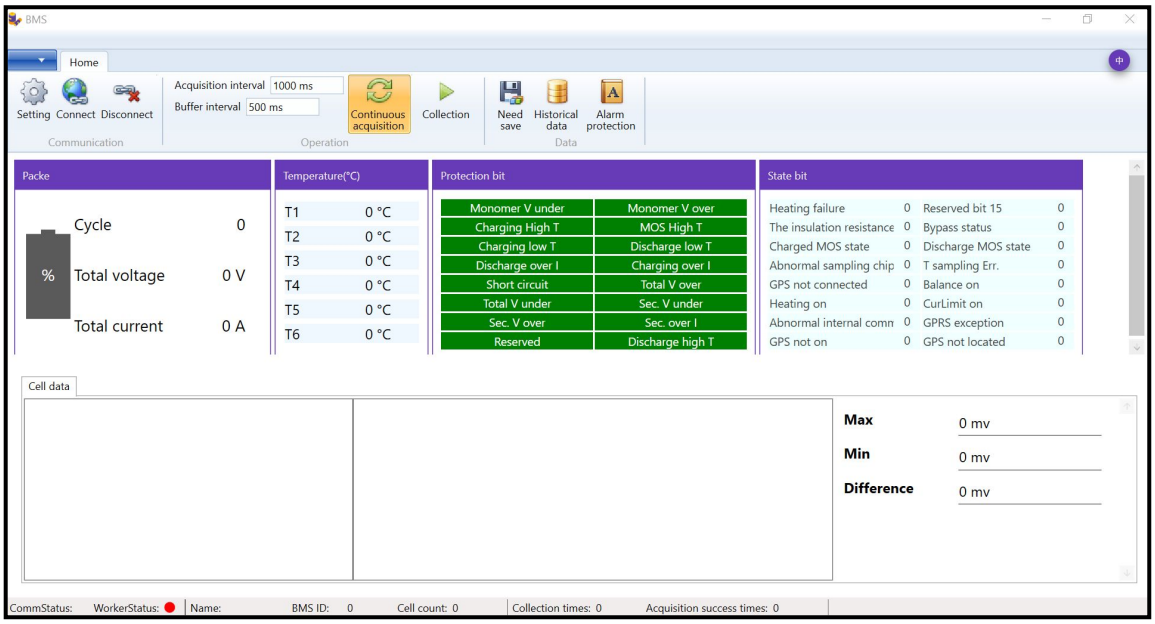
HOW TO DO?

1. **Connect the "**Data transfer cable" to the laptop and lithium battery.





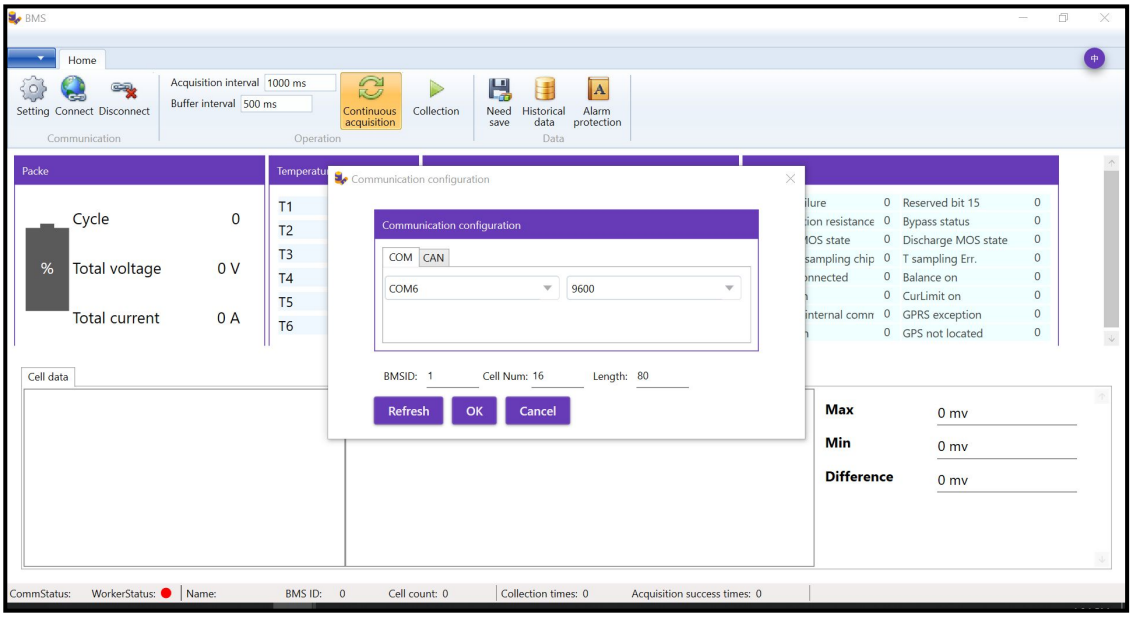
2. Run the battery interface software **GBMS** by following the Procedures "**PR20211006-How to use Interface software for lithium battery-v02.0-EN-[E]**"



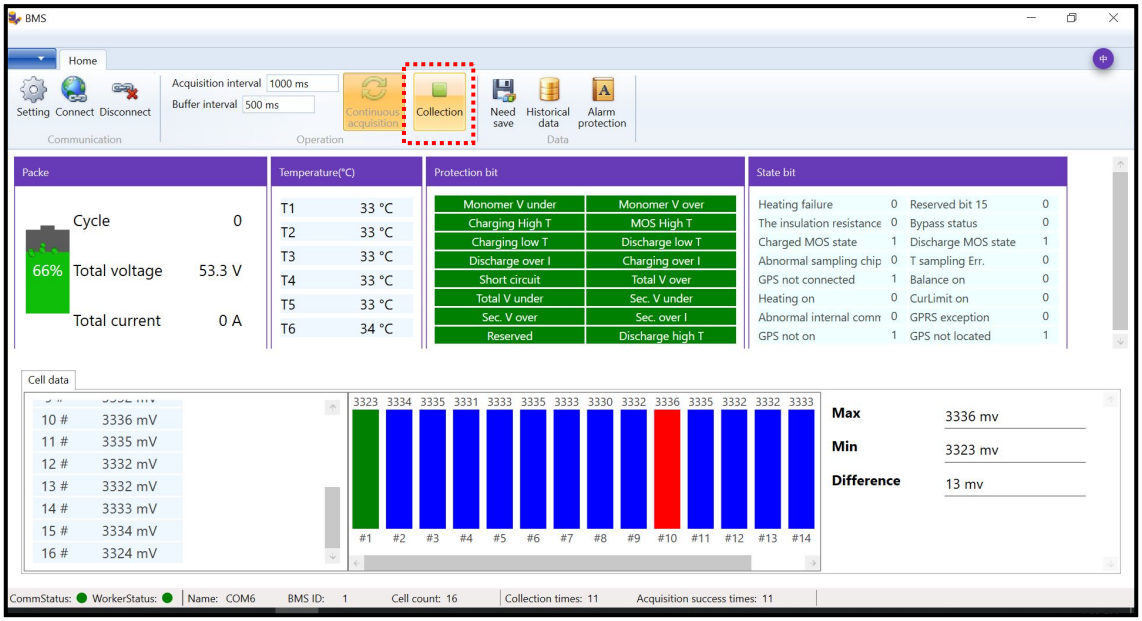
3. Set the COM /BMSID/Cell Num/Length

- **COM: The COM # depends on the laptop you are using.**
- **BMSID: 1**
- **Cell Num: 16**
- **Length: 80**

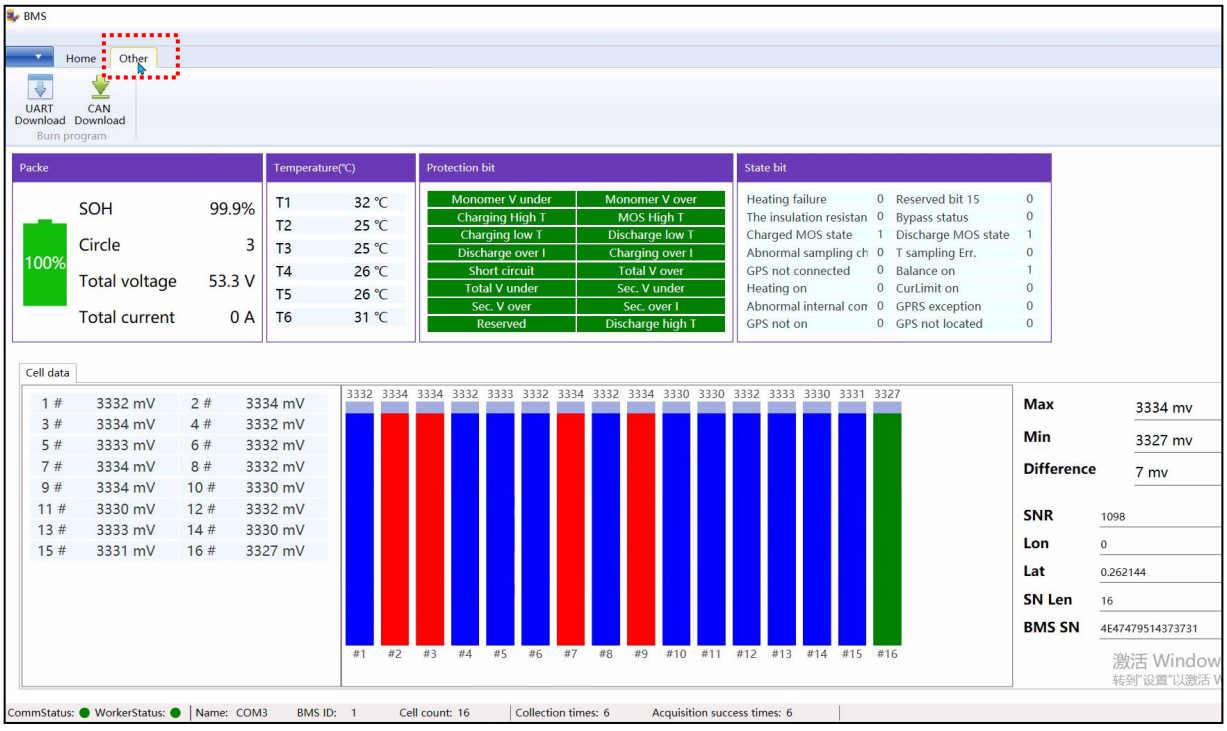
.



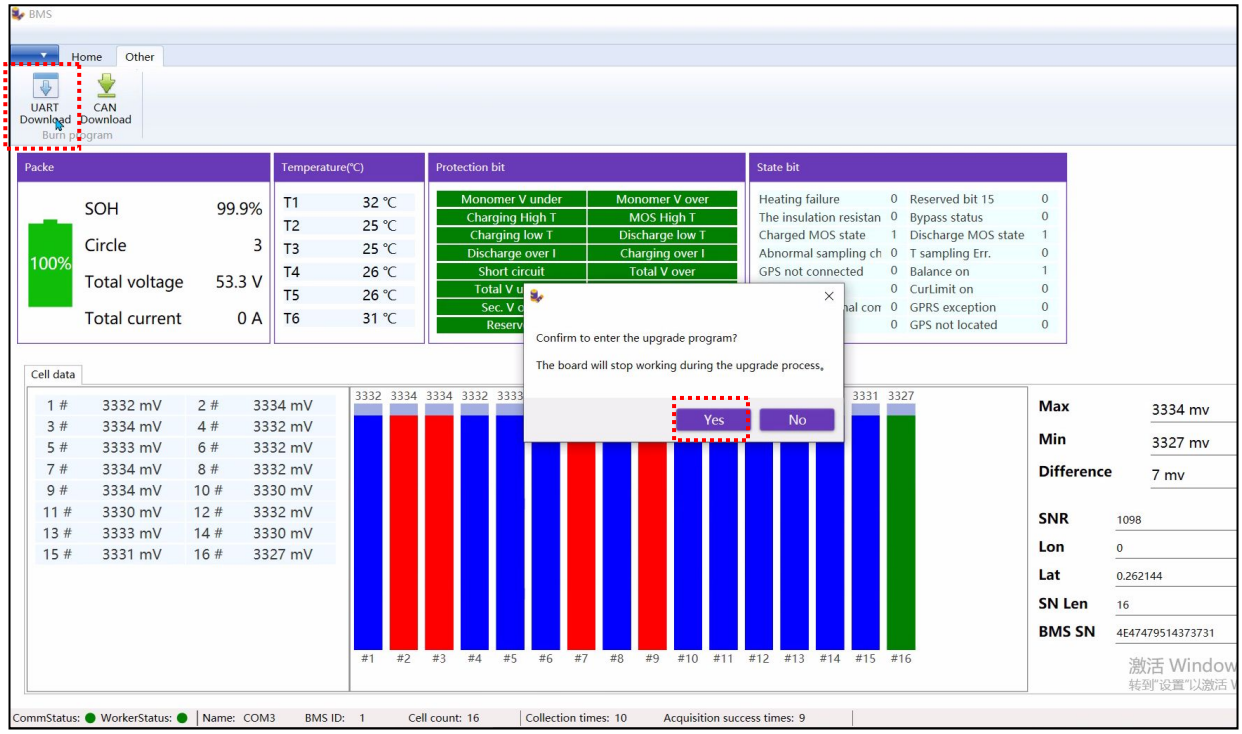
4. Click on the "Collection" icon to start reading the data from lithium battery BMS.

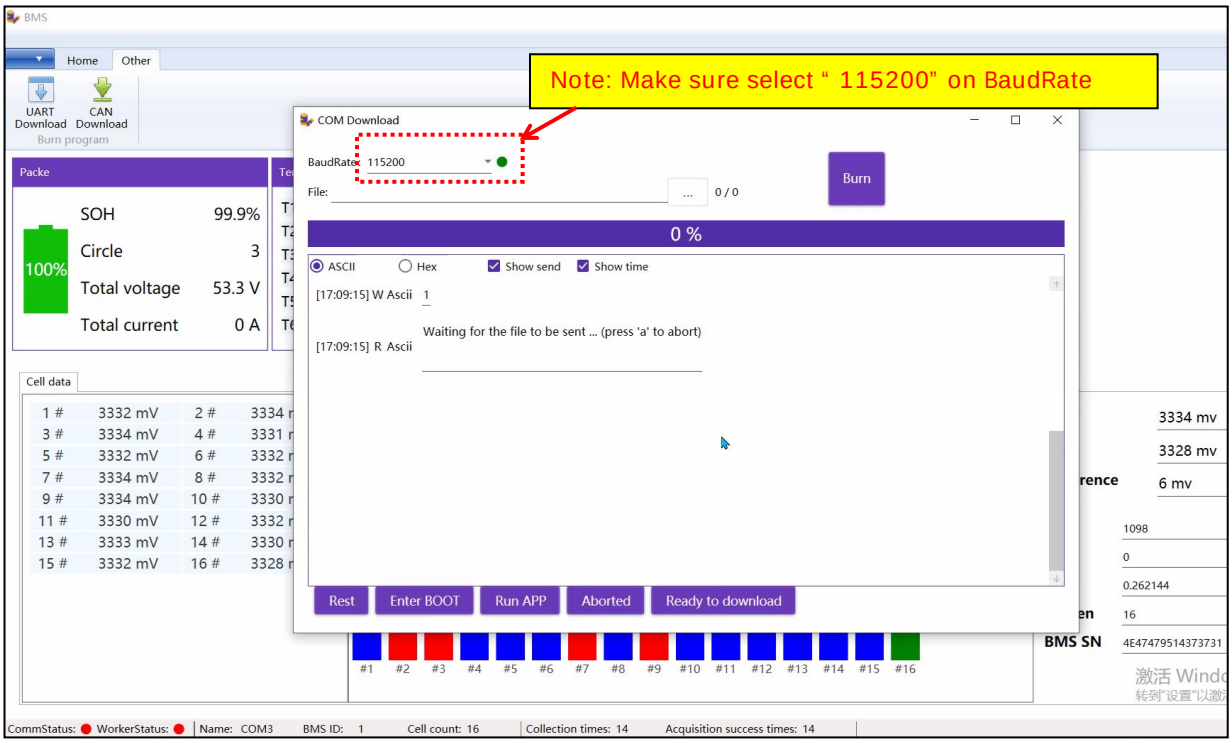


5 Click "other" menu on the top left corner of interface.

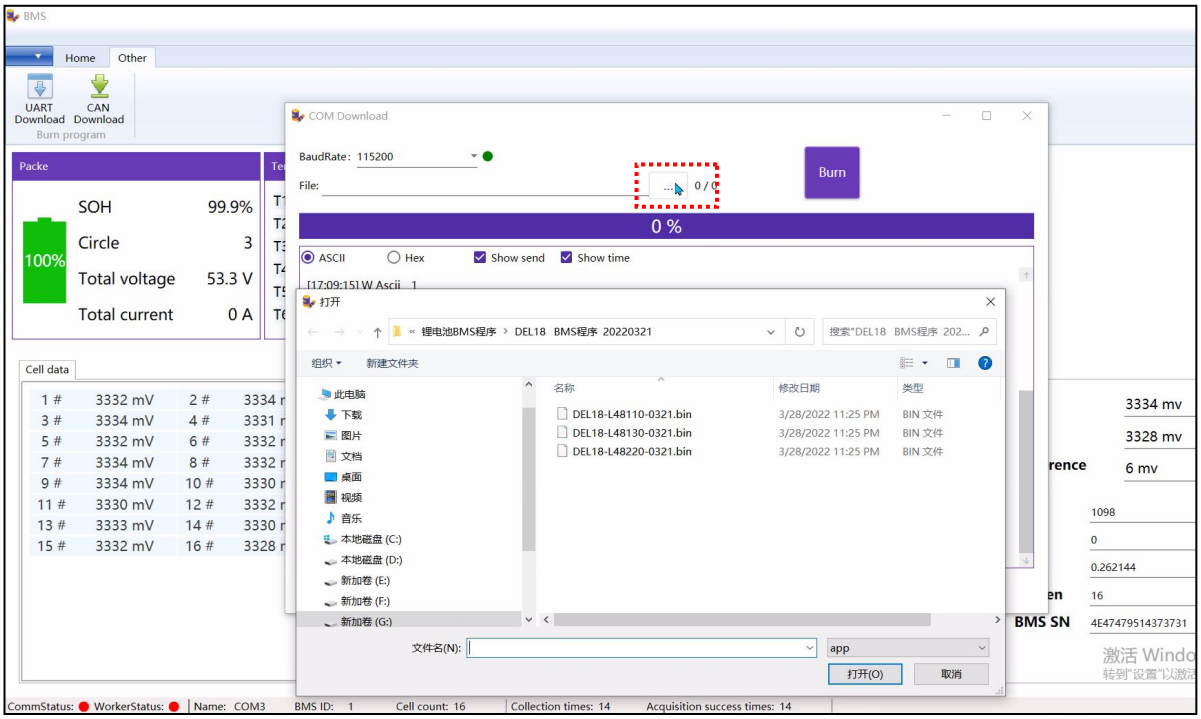


6. Click " UART Download" button and then select "Yes" on the pop-up dialogs.

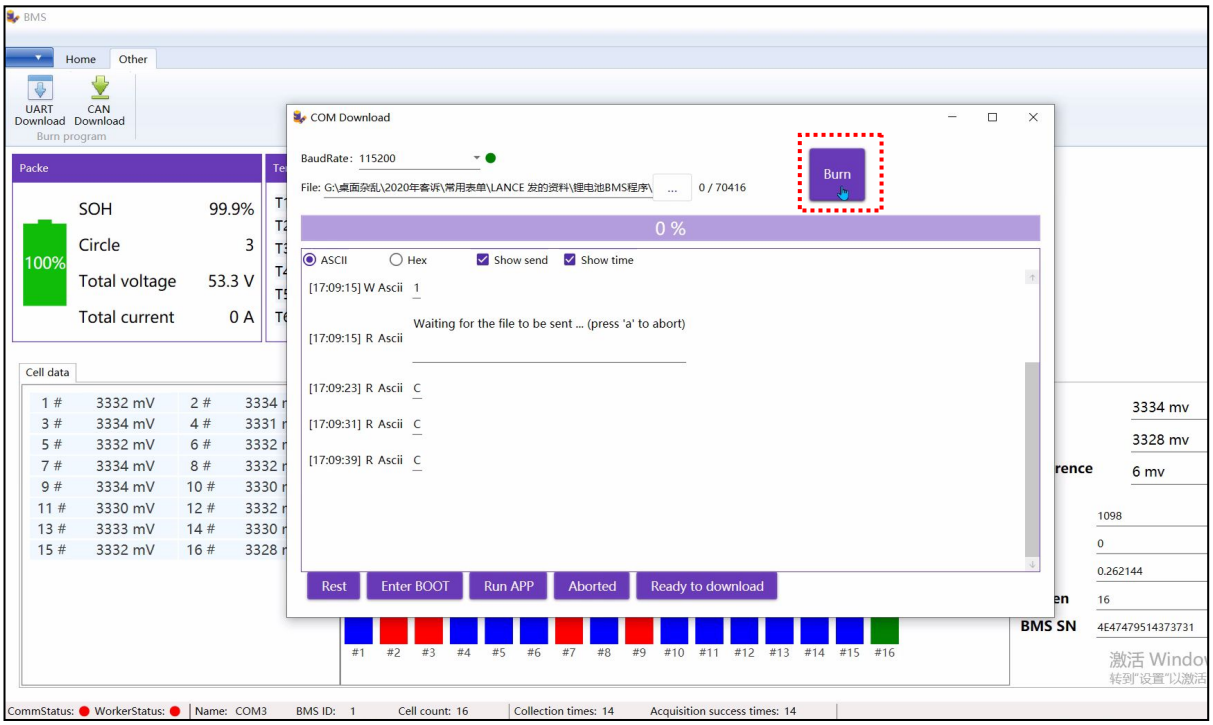




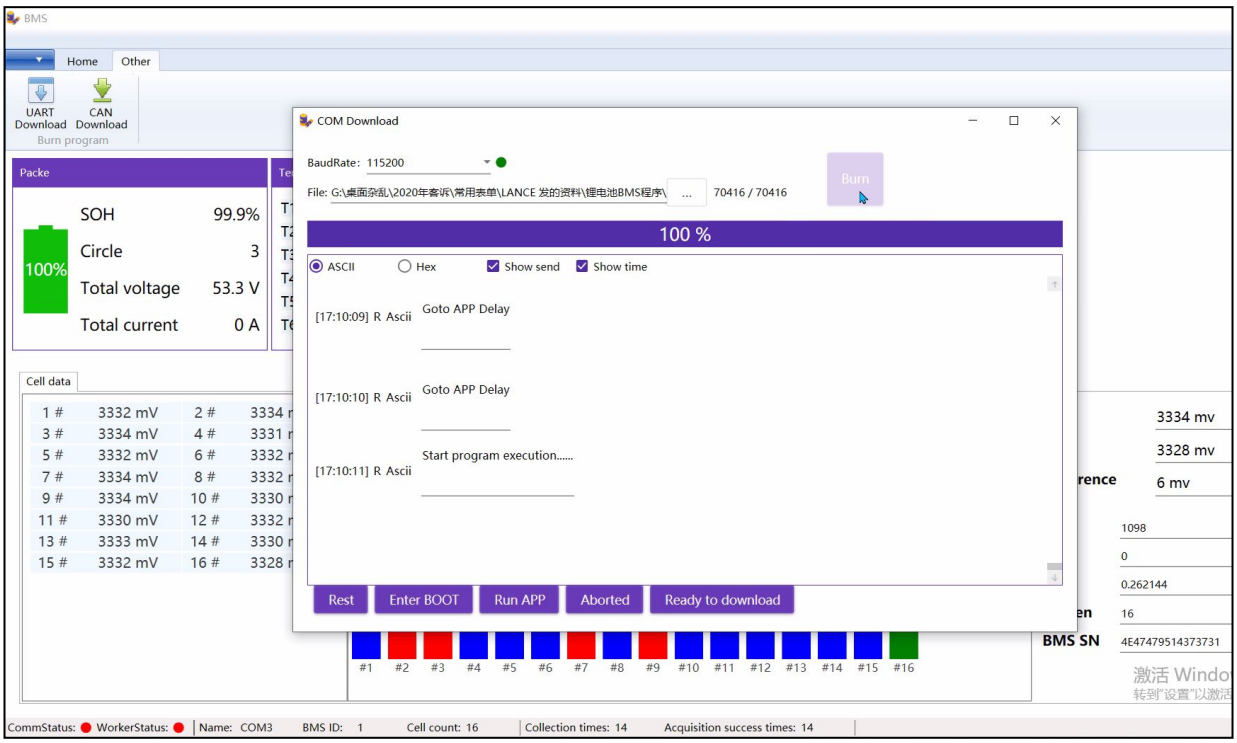
7 Click the file "..." button to select the proper firmware for your lithium battery.



8 Click the " Burn" button to download the firmware to the BMS board.



9. When the progress bar shows 100%, the reflashing progress is completed. Turn off the interface software.



10. Cycle the key switch and then charge the lithium battery fully.

Note: Must fully charge the lithium battery after re-programming/reflashing the BMS.