

VOLTGO VLRV – COMMUNICATION BOARD FW UPDATE STANDARD OPERATION PROCEDURE

Introduction

This document is intended to be used as a reference guide for updating the firmware of the communication board in VLRV Elite batteries using the BMSDownloadTool application.

A sufficient understanding of electronics and computer skills is essential.

At any point, if you are in doubt, please contact MI Engineering department before undertaking a procedure like this which could cause loss of information in the unit.

This procedure covers the software update of the following Voltgo batteries:

- VLRV2560A
- VLRV2560B
- VLRV5120A
- VLRV5120B
- VLRV5120C

In order to perform this task, you will need the following items:

- Laptop or PC with USB port.
- Voltgo BMSDownloadTool app downloaded in PC.
- Voltgo USB to RJ45 interface

BMSDownloadTool USB to RJ45 Cable



BMSDownloadTool Software

The BMSDownloadTool is an executable application designed by Voltgo to upgrade the communication board software of the VLRV batteries.

Communication Board Software Update - Procedure

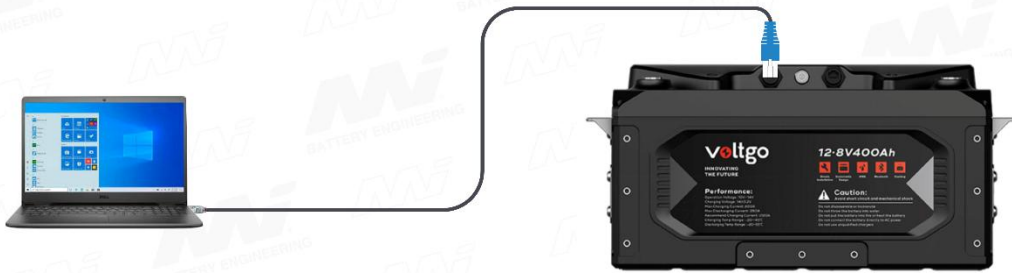
Step 1: Turn battery on by pressing the main switch.



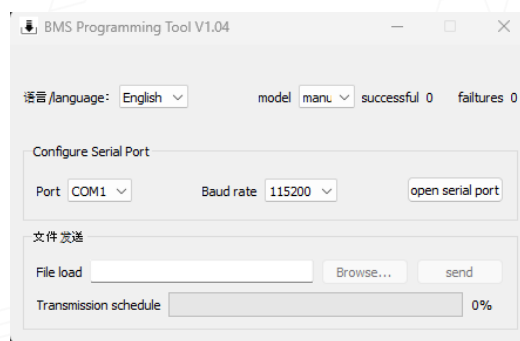
VOLTGO VLRV – COMMUNICATION BOARD FW UPDATE STANDARD OPERATION PROCEDURE

Step 2. Connect the USB end of the interface cable to your laptop or PC.

Step 3: After, connect the RJ45 end into one of the communication ports on the Voltgo battery.



Step 4: Open BMSDownloadTool Application. Tip: You can change the language to English.

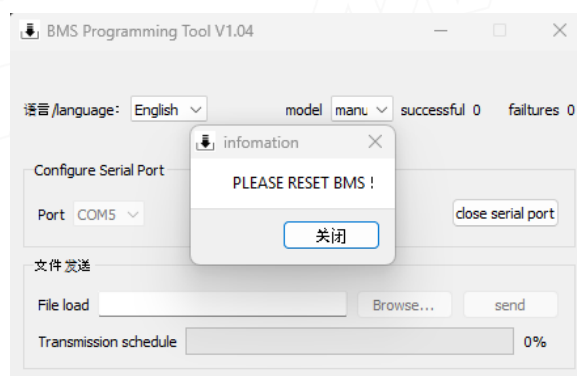


Step 5: Select the correct serial port for interfacing.

To identify the right port:

- Open Device Manager on your PC.
- Expand the "Ports (COM & LPT)" section.
- Look for the USB serial device which appears after the cable is plugged in.
- Note the COM number and select that same port in your software.

Step 6: Click Open Serial Port.



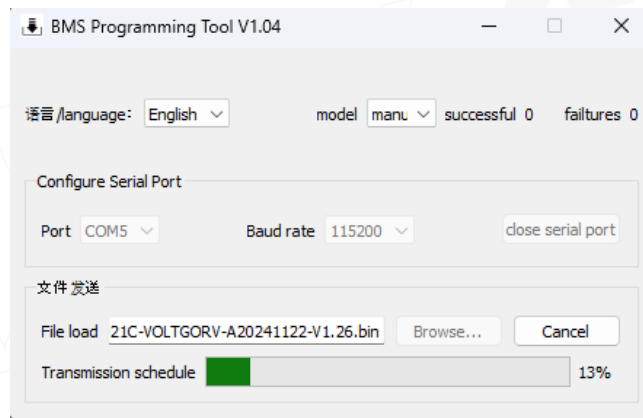
VOLTGO VLRV – COMMUNICATION BOARD FW UPDATE STANDARD OPERATION PROCEDURE

Step 7: Turn the Voltgo battery off, then turn it back on.

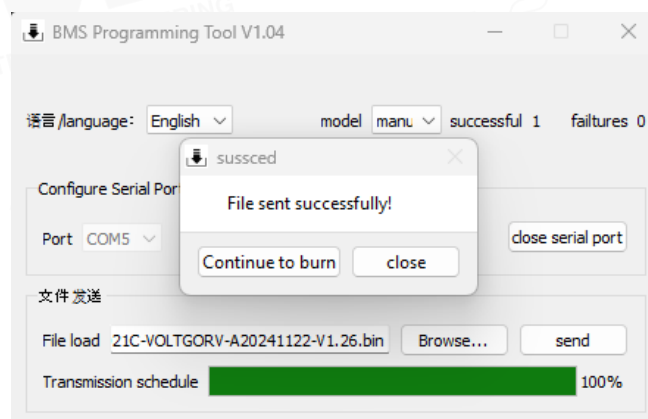


Step 8. Browse and select the correct software patch file for your Voltgo battery model.

Step 9: Once the file is loaded in BMSDownloadTool Application, click “Send” to begin the update.



Step 10: After the file has been successfully sent, click “Close”, then exit the application.



VOLTGO VLRV – COMMUNICATION BOARD FW UPDATE STANDARD OPERATION PROCEDURE

Step 11: Turn off the battery via its main power button.



Congratulations — you have successfully completed the Communication Board Software Update!