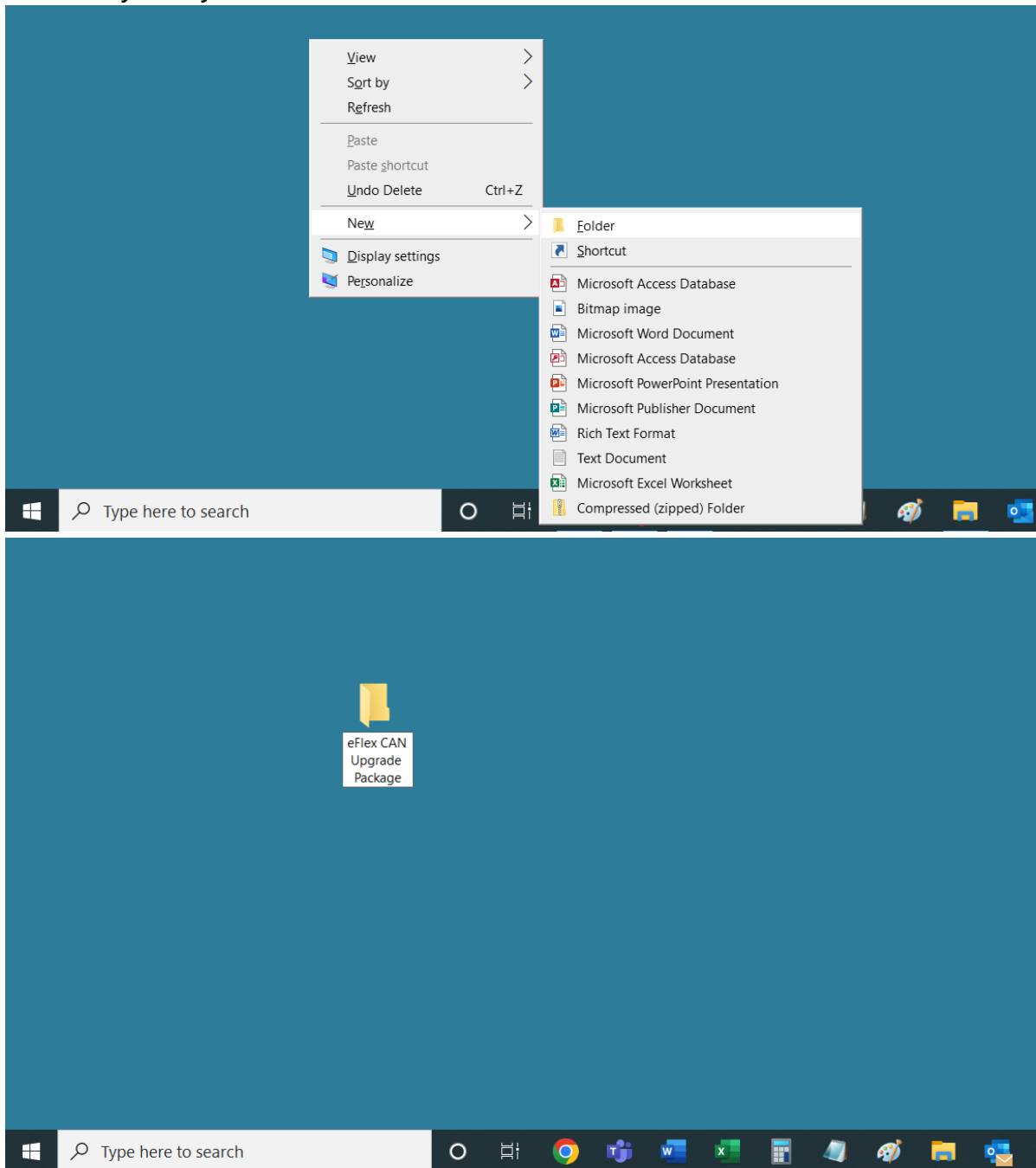
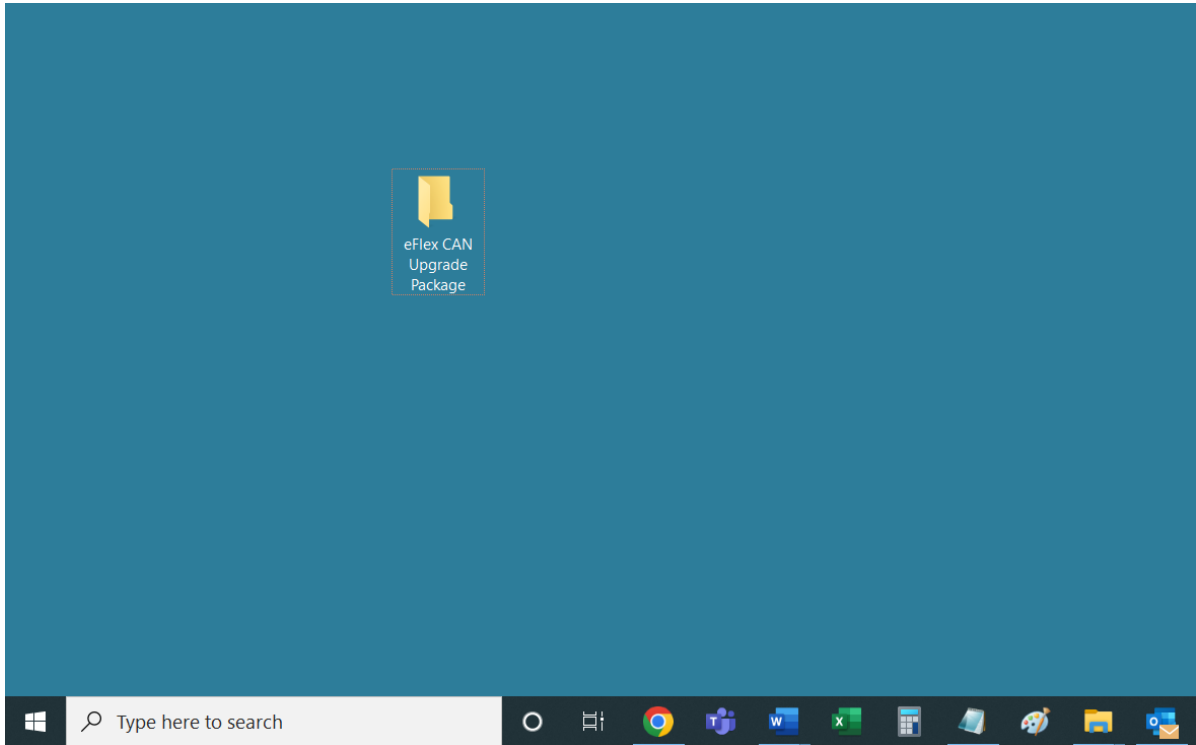


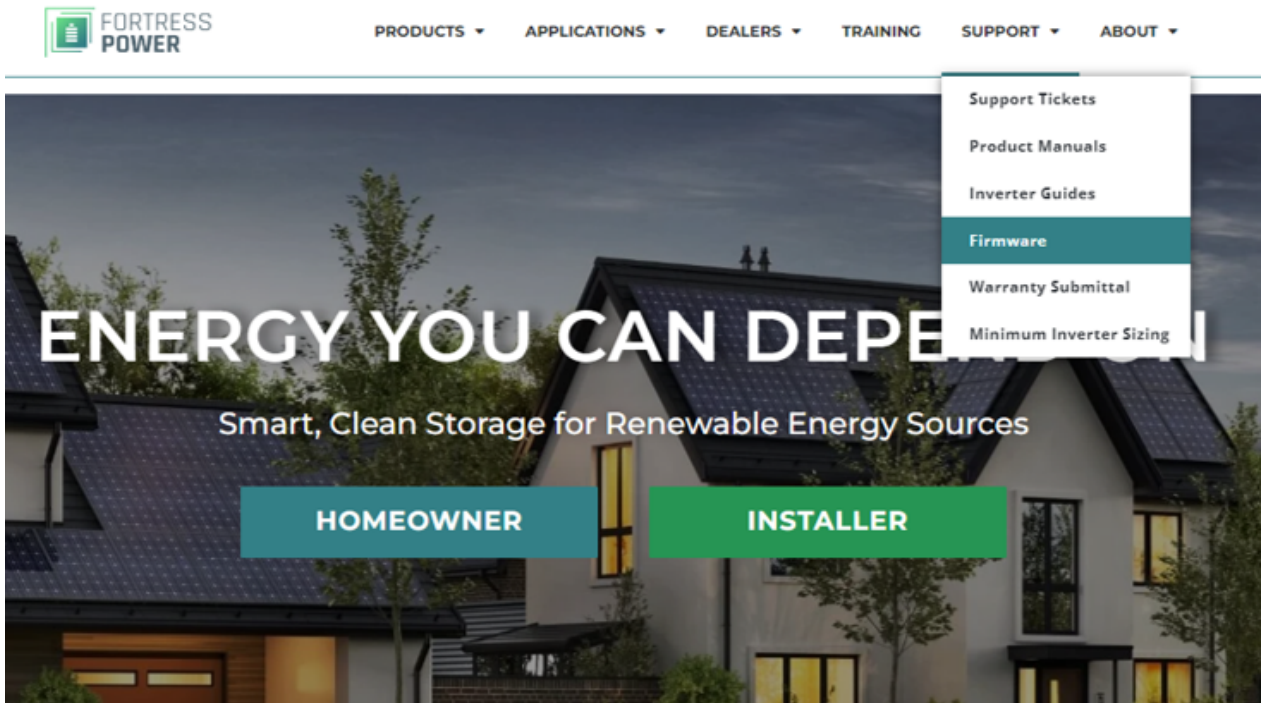
# Obtaining and Organizing the Required Files

1. Right-click on the desktop and in the drop down, hover your mouse pointer to "New" and then click on "Folder" and create a title for it. In this guide the folder will be named "eFlex CAN Upgrade Package" and it is suggested for you to use the same title. Once the title is typed in either double click somewhere on the desktop or click "Enter" on your keyboard.





2. Go to website "fortresspower.com", hover your mouse pointer to the "SUPPORT" tab on the website and click on "Firmware".



3. On the next page, click on "--select product--", select "eFlex" and click "Go!".

The screenshot shows the top navigation bar of the Fortress Power website with the logo on the left and menu items: PRODUCTS, APPLICATIONS, DEALERS, TRAINING, SUPPORT, and ABOUT. The main content area has a dark background with a house image. On the left, there is a disclaimer: "Please **DO NOT** update any Fortress battery firmware unless directed by Fortress technical support. Updating Fortress firmware requires a Windows laptop, a Fortress CANbus tool, and hardware drivers. Fortress installers wishing to perform firmware updates should request a firmware update tool and setup assistance by submitting a support ticket at [support.fortresspower.com](https://support.fortresspower.com)". On the right, there is a "Select Product" section with a dropdown menu currently showing "--Select Product--" and a teal "Go!" button below it.

4. Below, a table will appear. You need to download software, firmware, and driver. Click on download icons for the corresponding rows (last four download icons).

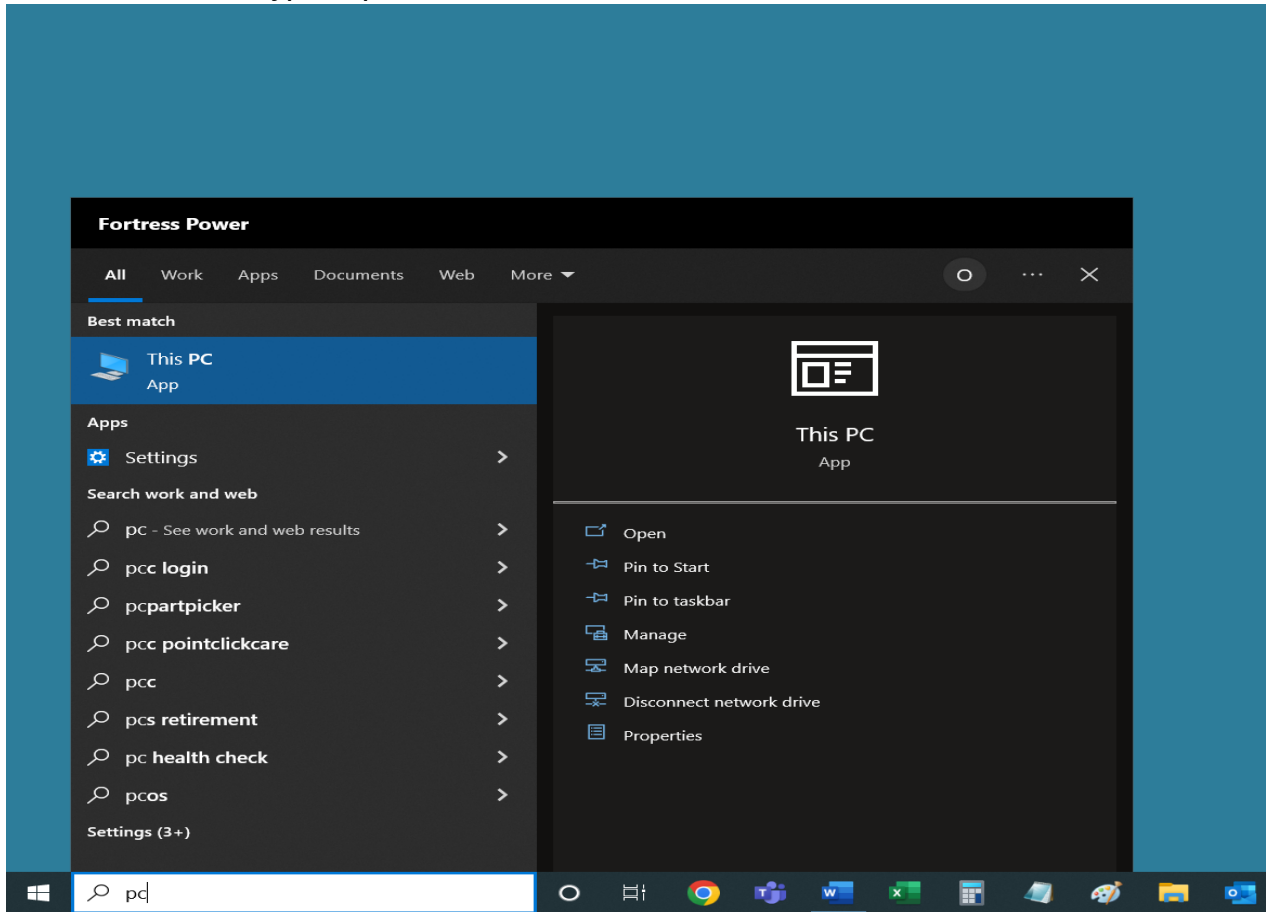
**Note: the version numbers will change in the future. If the versions that you see on your screen don't coincide with the ones in this manual, that's normal, please continue.**

This screenshot is similar to the previous one but with the dropdown menu set to "eFlex" and the "Go!" button highlighted. Below the disclaimer, a table is displayed with the following data:

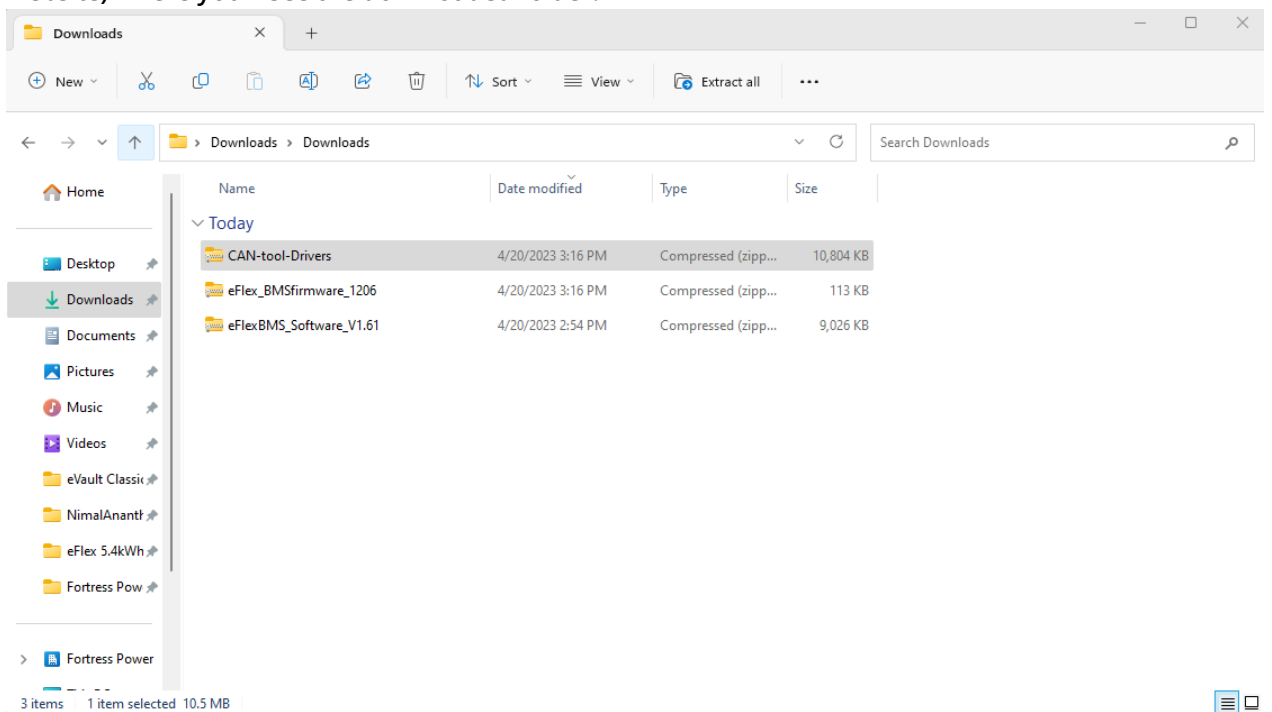
Type	Version	Product	Last modified	Download
PDF	README Disclaimer	eFlex	21-11-2022	
PDF	eFlex-Firmware-Update-Instructions	eFlex	21-12-2022	
Driver	CANtool Drivers	eFlex	08-07-2021	
Software	eFlex BMS Software (V1.61)	eFlex	18-04-2023	
Firmware	BMS Firmware V3012 & V4006	eFlex	20-04-2023	

5. Once the downloads are completed, navigate to the "Downloads" folder (or wherever you saved the files from the website). Close the browser, click on the start (looks like

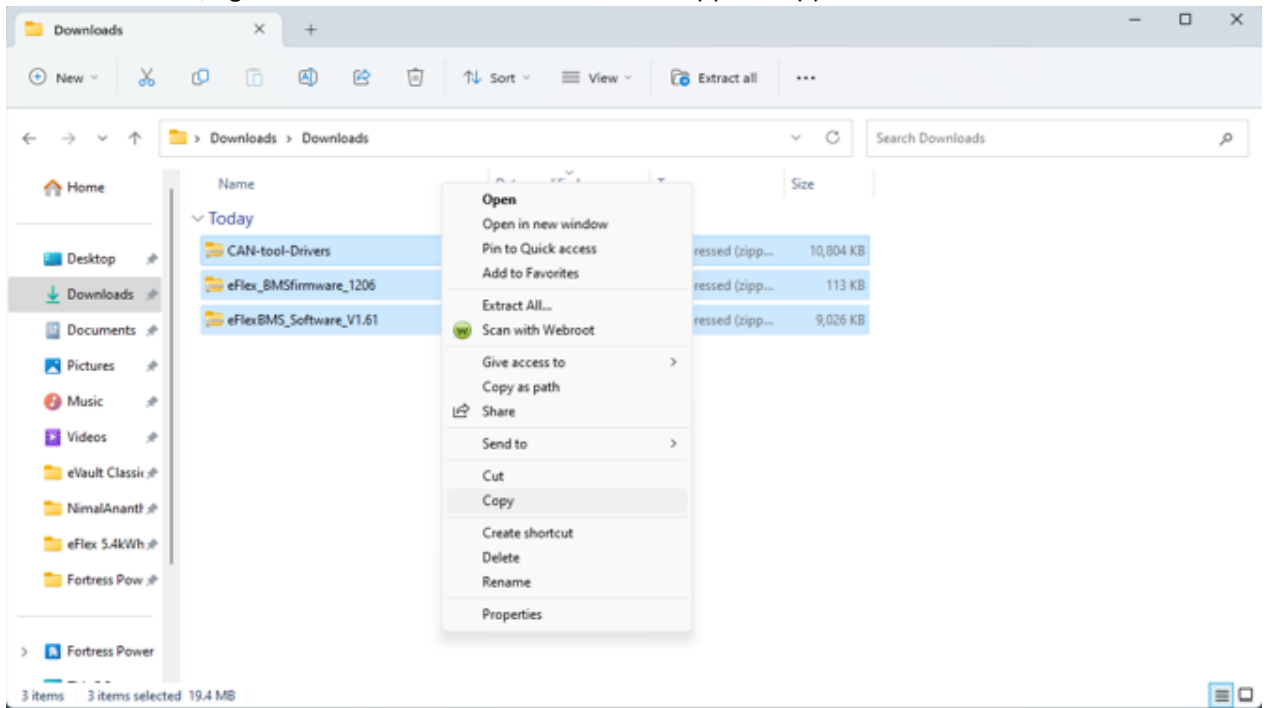
a Windows icon) and type in "pc". Then, click on "This PC".



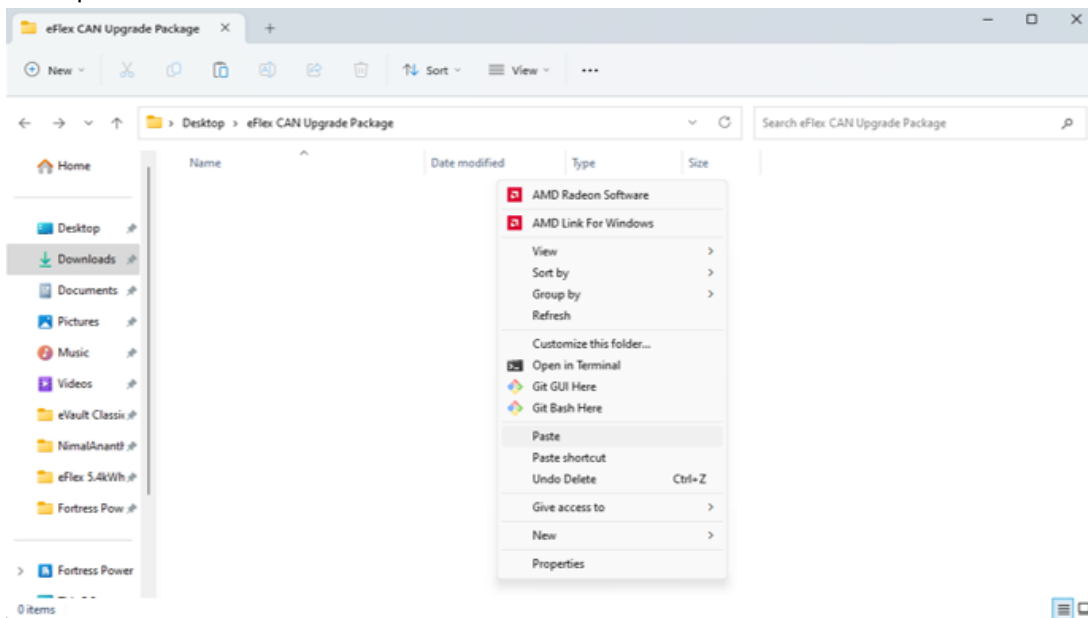
6. Then, go to the "Downloads" folder (or wherever you saved the files from the website) where you'll see the downloaded folder.

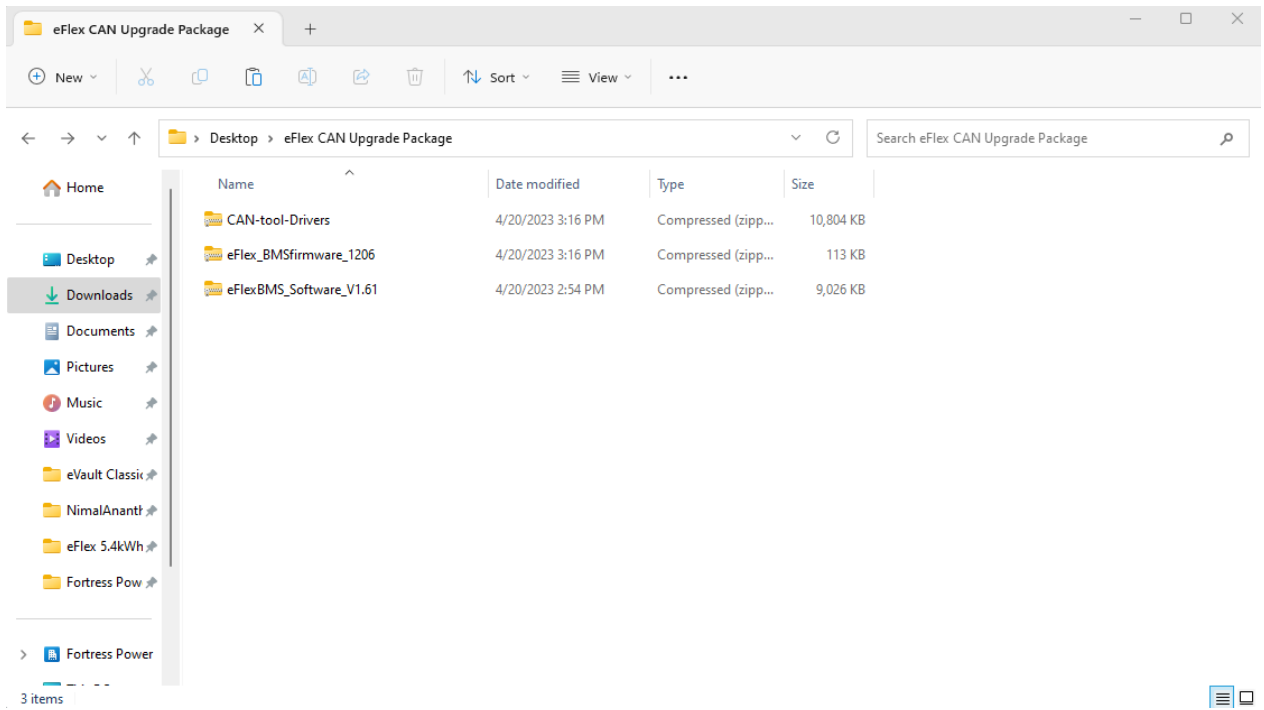


7. Select all the files, right-click on the selection and click on "Copy" to copy these files.

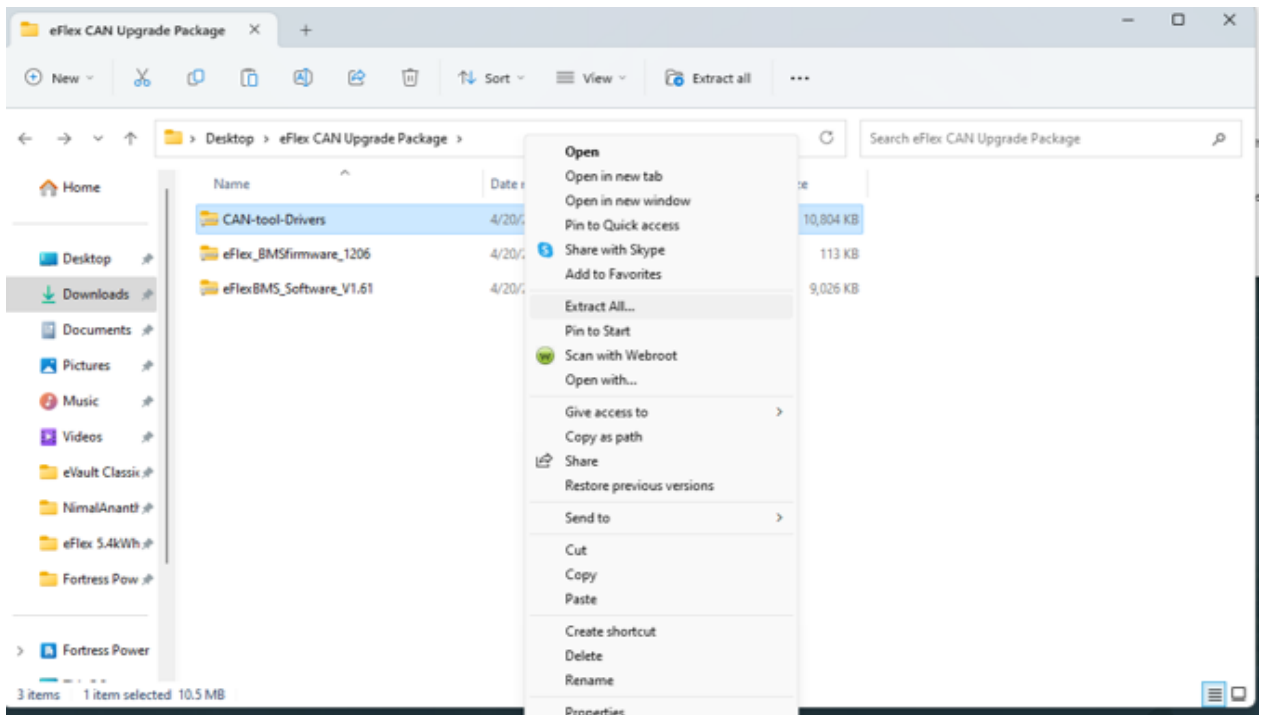


8. Navigate to the "eFlex CAN Upgrade Package" right-click somewhere in the folder and paste the copied files.

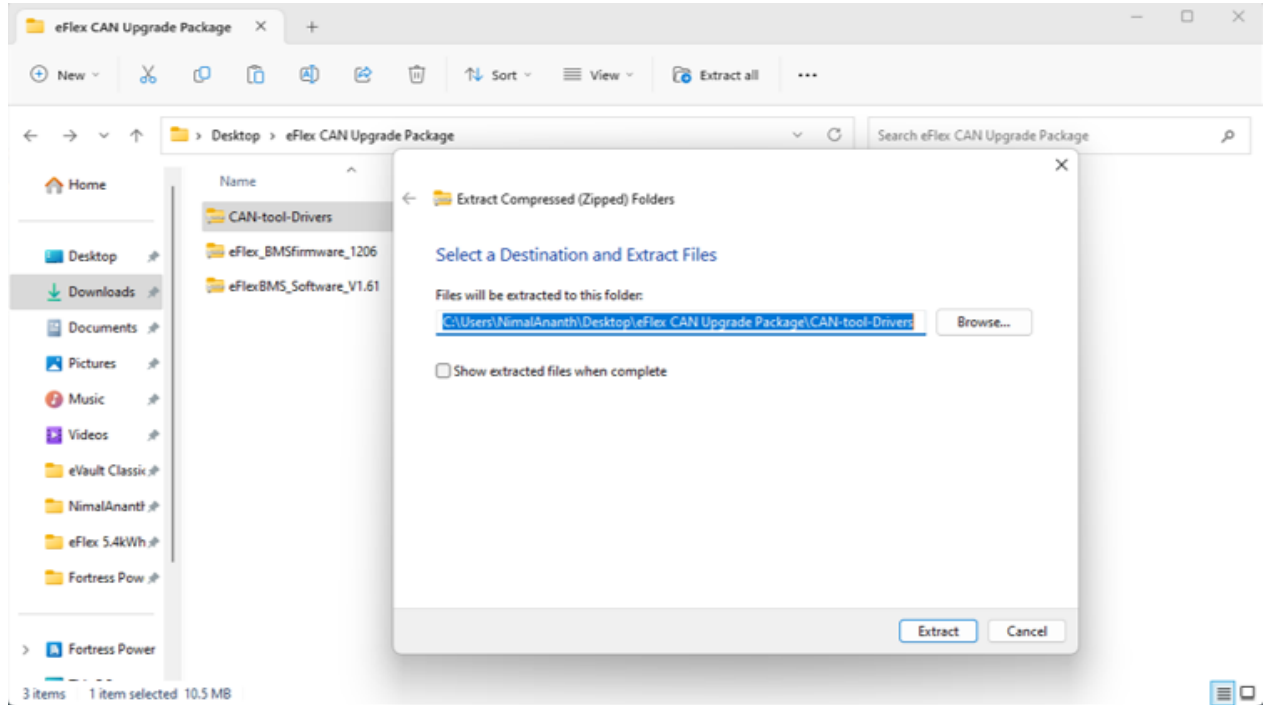




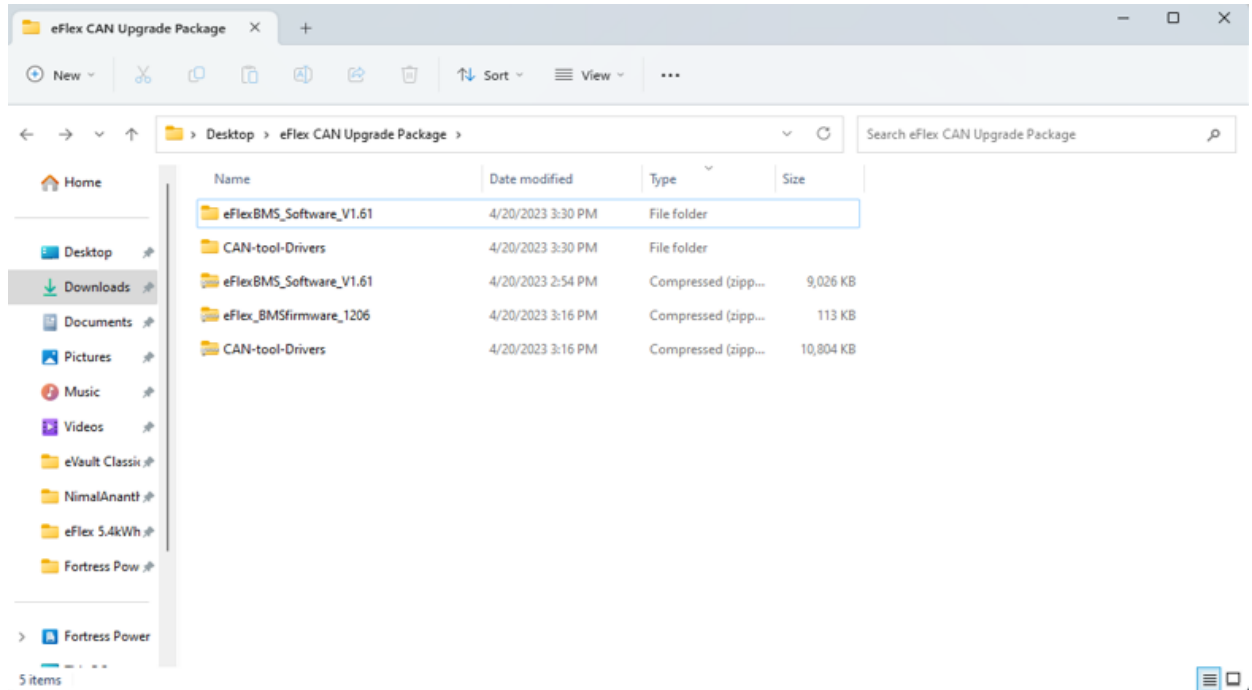
9. Click somewhere in the folder to remove the blue highlight from the files. Then, right-click on one of the files and from the dropdown click on "Extract All..".



10. Afterwards, click on "Extract".



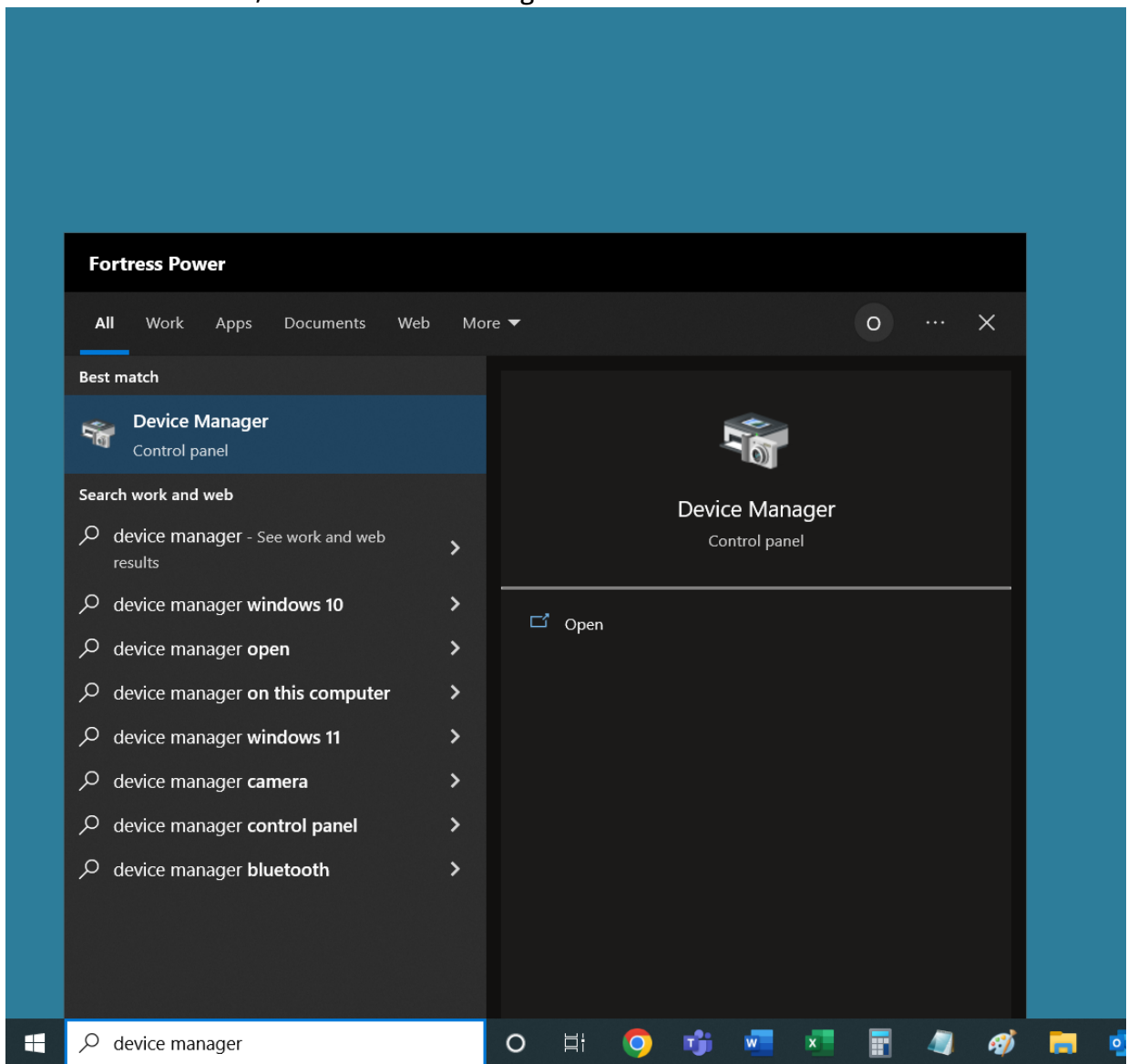
11. Proceed the same process to extract the file "eFlexBMS\_Software\_V1.61".



**Now the drivers for the CAN tool (USBCAN) need to be installed**

# Installing the Drivers for the CANtool (USBCAN)

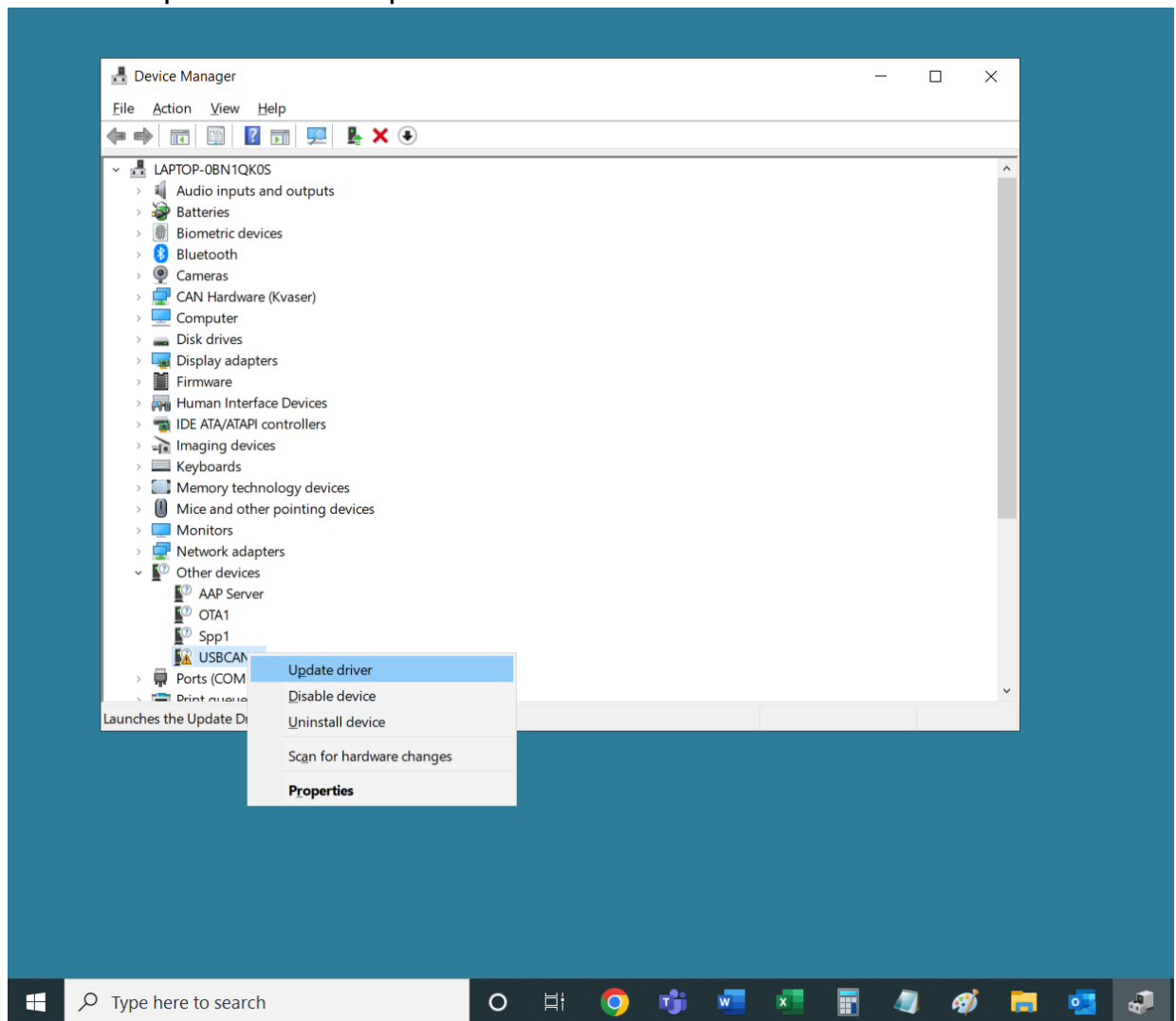
1. Connect the USB cable of the CANtool (USBCAN) to your computer and the CANtool itself.
2. Click on the "Start" icon (looks like a Windows logo) and type in "device manager". Above the search-bar, click on "Device Manager".



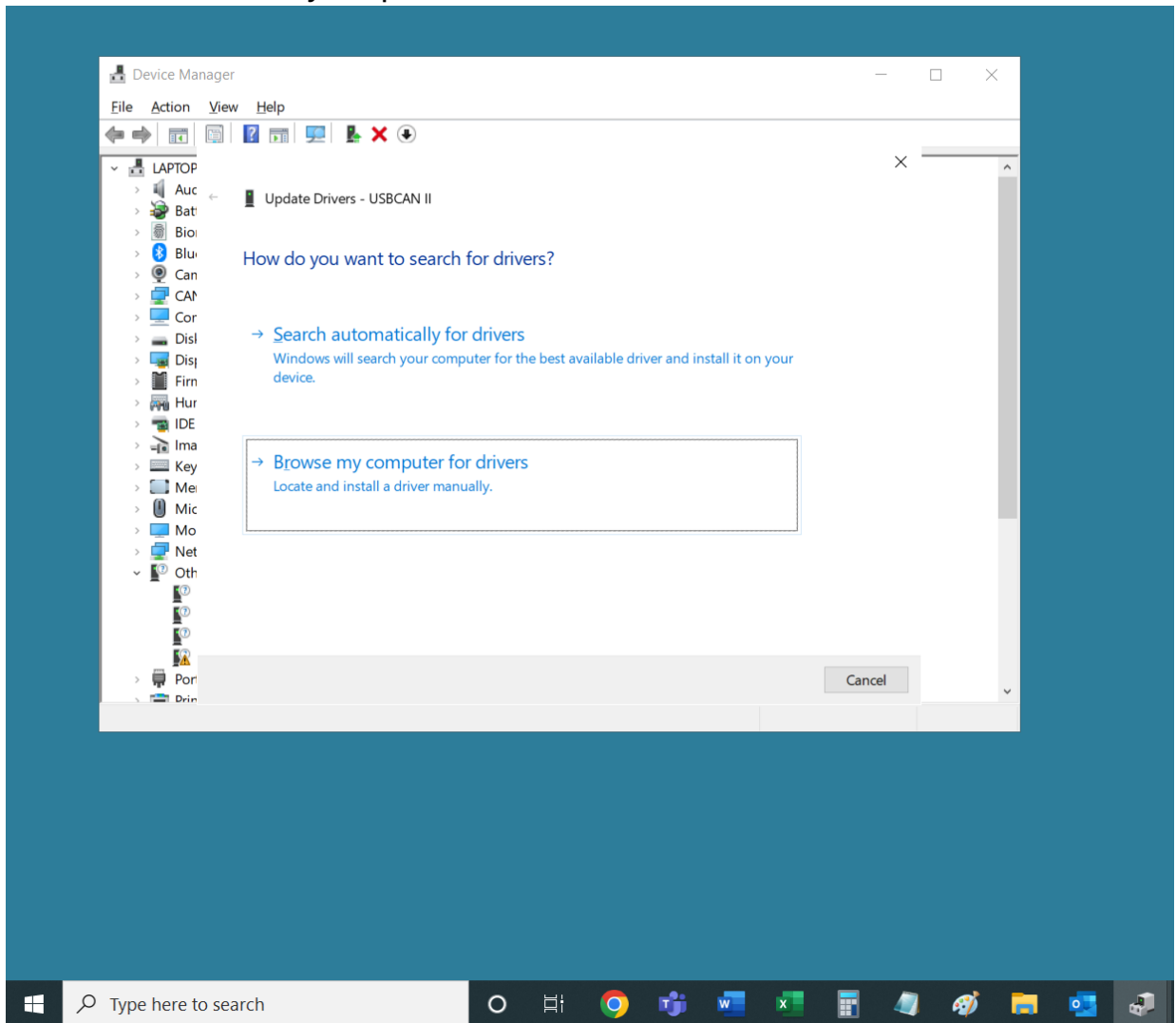
3. A window similar to the one shown below will open and one of the items of the list will be "USBCAN II" with an indent on the left. Right-click on this "USBCAN II" and



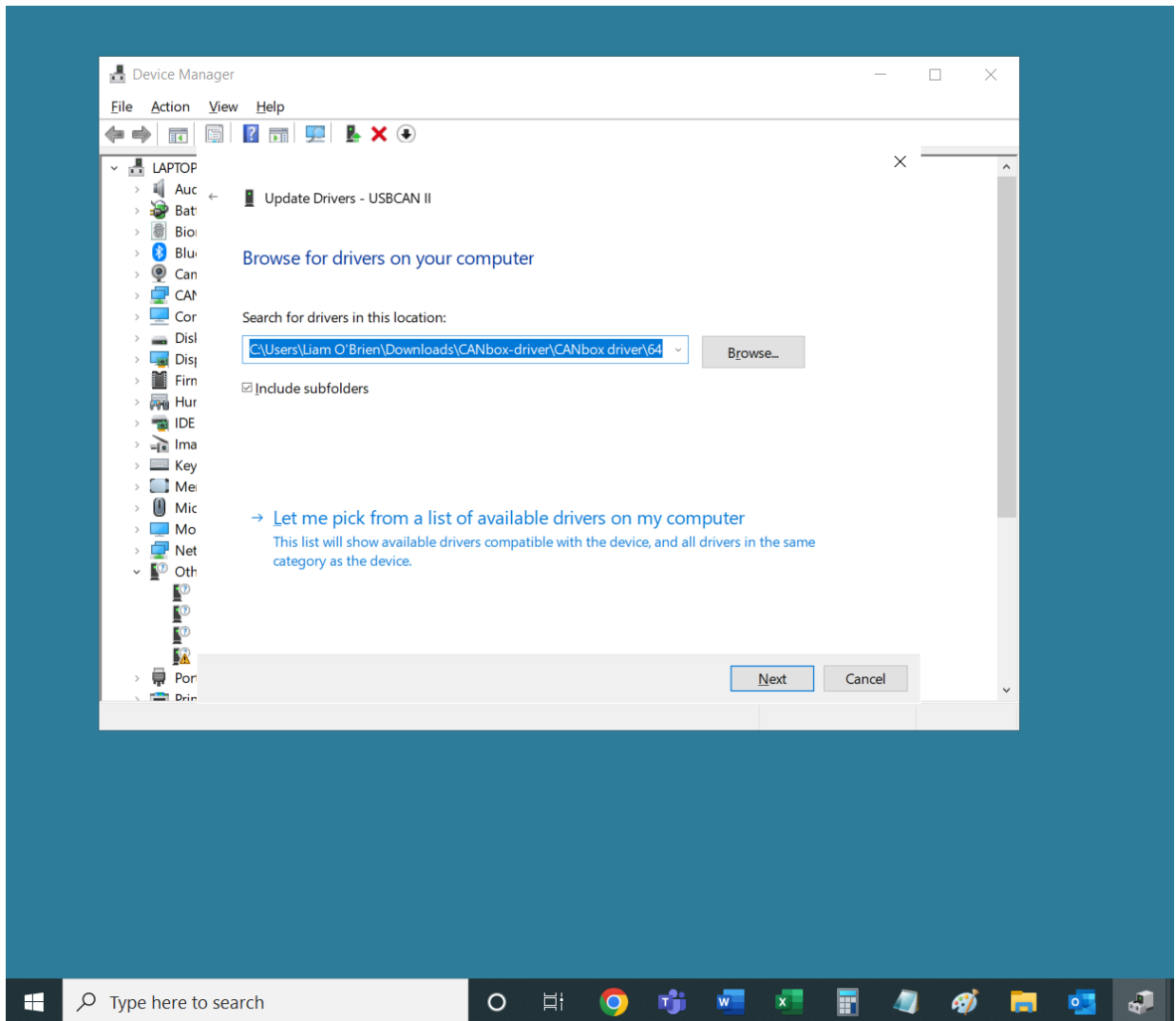
from the drop-down click on "Update driver".



4. Next, click on "Browse my computer for drivers".

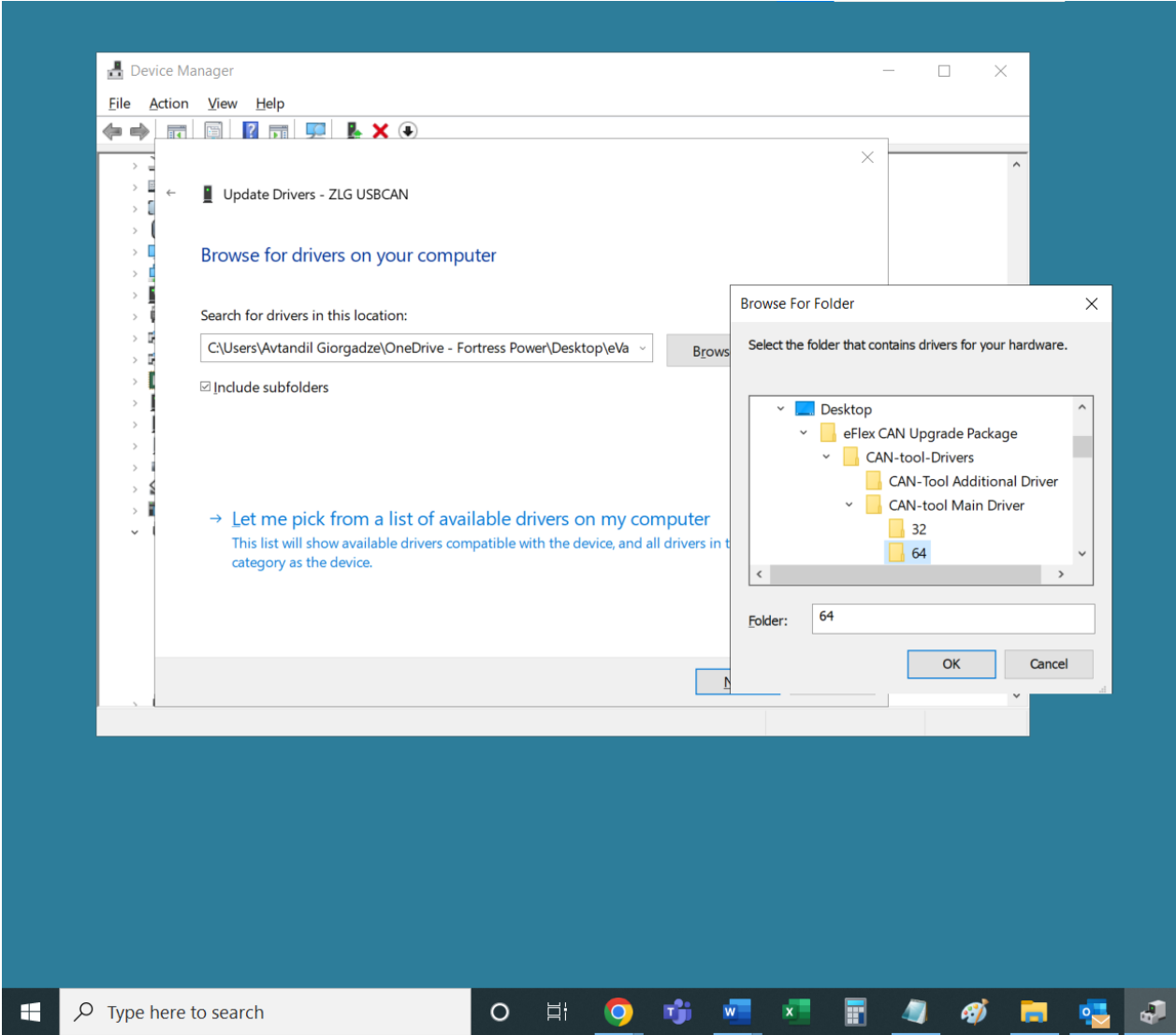


5. Now, click on "Browse..."

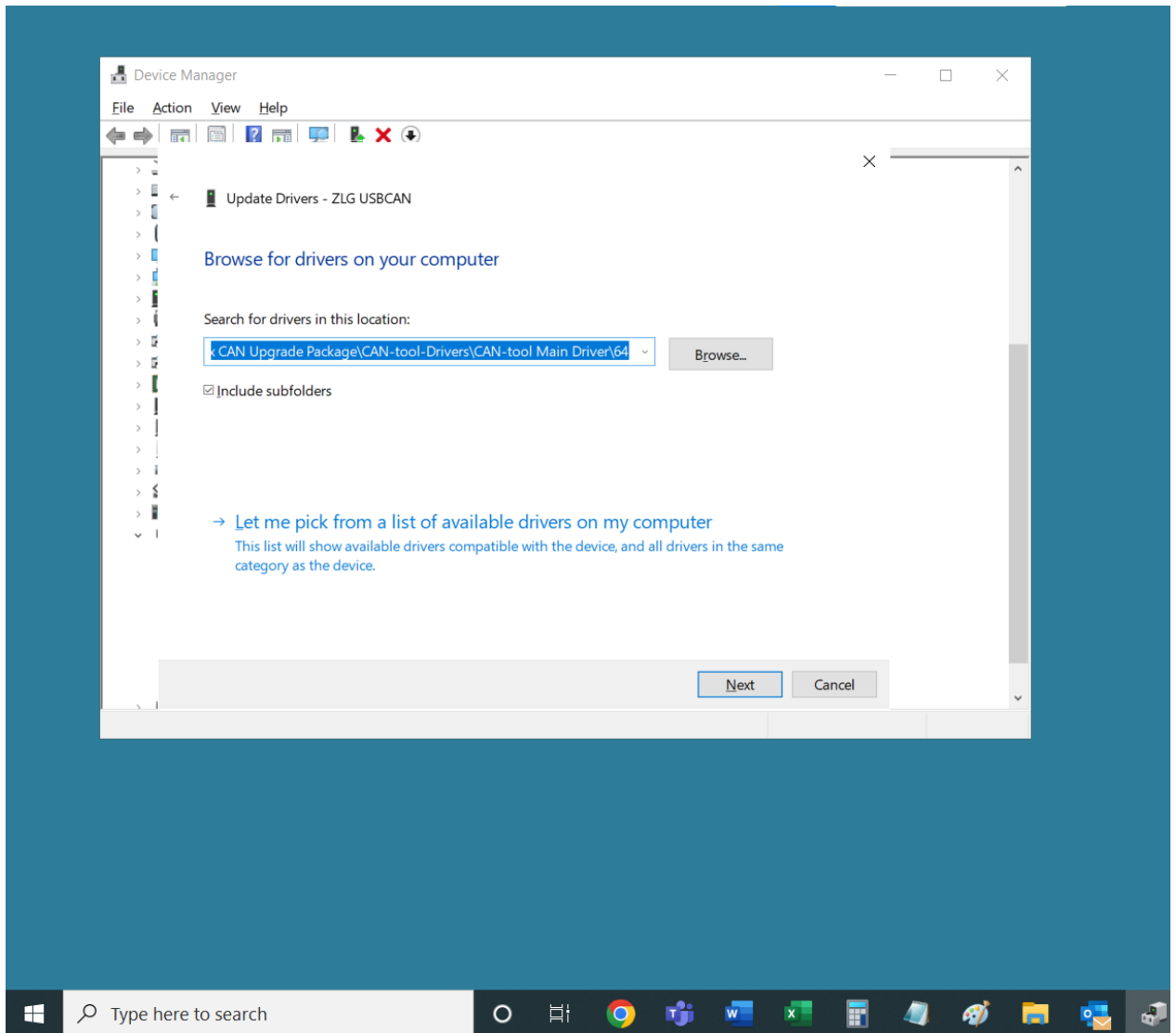


6. Then, navigate to the "eFlex CAN Upgrade Package" and from there navigate as follows: "eFlex CAN Upgrade Package" >>> "CAN-tool Drivers" >>> "CAN-tool Main

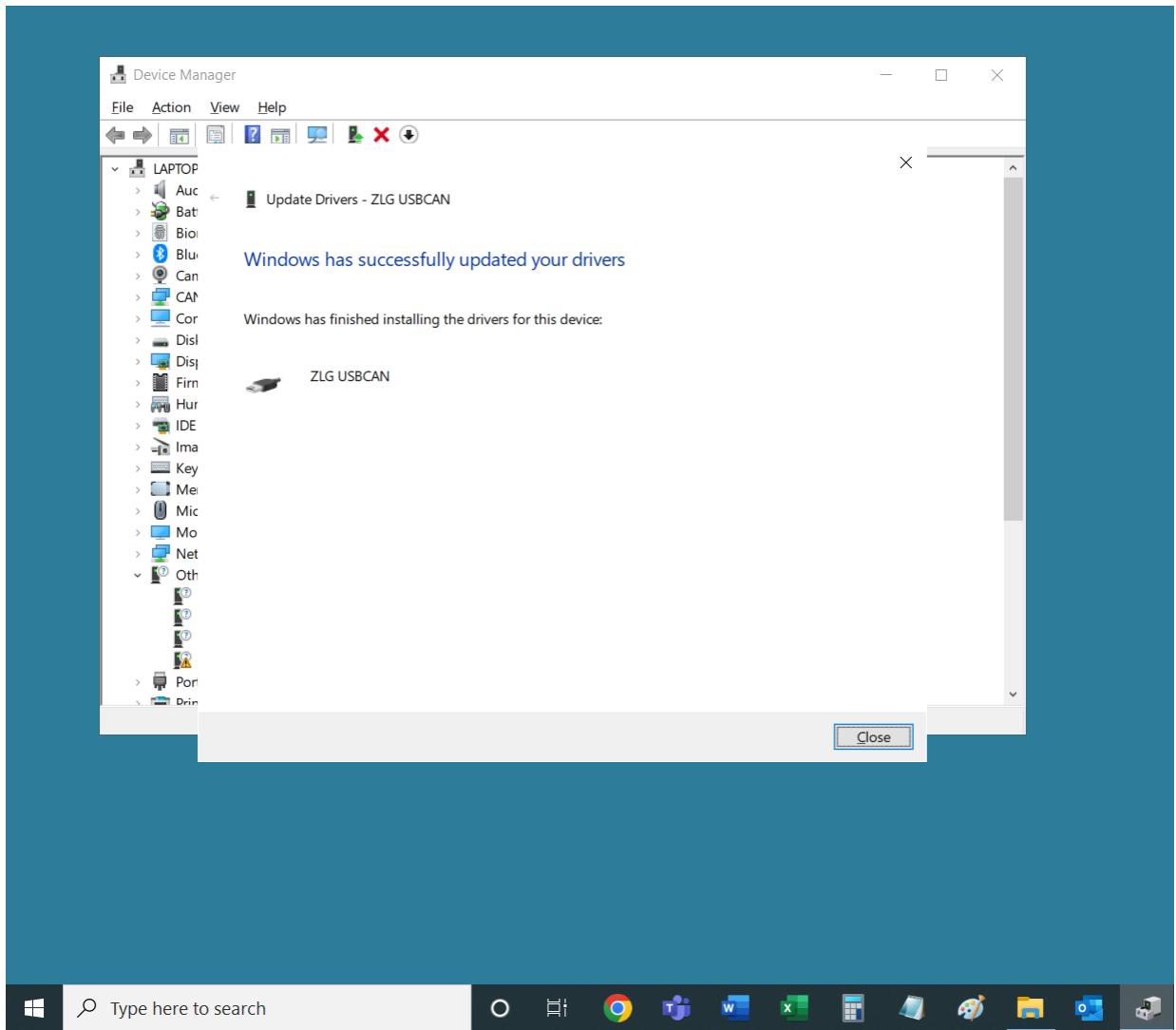
Driver" >>> "64". Once "64" is selected, click "OK".



7. Then, click "Next".



8. You will see the success message as shown below. Click "Close" and close the "Device Manager" window.



9. It's time to install an additional document. To do so, first open "eFlex CAN Upgrade Package" folder. Then, open the "CAN-tool Drivers" folder and afterwards open the "CAN-tool Additional Driver" folder. Now you can see a file titled "cantestV2.41".

> eFlex CAN Upgrade Package > CAN-tool-Drivers > CAN-Tool Additional Driver

Name	Date modified	Type	Size
cantestV2.41	12/19/2022 4:15 PM	Application	10,715 KB

1 item | 1 item selected | 10.4 MB

## 10. Double-click "cantestV2.41".

The screenshot shows a Windows File Explorer window with the following details:

- Address Bar:** eFlex CAN Upgrade Package > CAN-tool-Drivers > CAN-Tool Additional Driver
- File List:**

Name	Date modified	Type	Size
cantestV2.41	12/19/2022 4:15 PM	Application	10,715 KB
- Left Panel (Quick access):** Working Files, Documents, Pictures, Docs, Downloads, New folder, Screenshots, OneDrive, OneDrive - Personal, This PC, 3D Objects, Desktop, Documents, Downloads, Music, Pictures, Videos, Windows-SSD (C:), Network
- Overlaid Dialog Box:**
  - Title:** CANTest 2.41 Setup
  - Header:** Welcome to CANTest 2.41 Setup
  - Text:** Setup will guide you through the installation of CANTest 2.41. It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer. Click Next to continue.
  - Buttons:** Next > (highlighted), Cancel
- Bottom Status Bar:** 1 item | 1 item selected | 10.4 MB
- Taskbar:** Windows Start button, Search bar (Type here to search), and taskbar icons for Chrome, Teams, Word, Excel, and other applications.



11. Then click "Install" and the installation process will start.

The screenshot shows a Windows File Explorer window with the address bar set to 'eFlex CAN Upgrade Package > CAN-tool-Drivers > CAN-Tool Additional Driver'. The file list contains one item: 'cantestV2.41', which is an application file of 10,715 KB, last modified on 12/19/2022 at 4:15 PM. An installation dialog box titled 'CANTest 2.41 Setup' is overlaid on the file explorer. The dialog is on the 'Choose Install Location' step, asking the user to choose the folder for installation. The current destination folder is 'C:\Program Files (x86)\CANTest\'. The dialog also indicates that 26.4MB of space is required and 345.2GB is available. At the bottom of the dialog, the 'Install' button is highlighted in blue, while the 'Back' and 'Cancel' buttons are greyed out.

Name	Date modified	Type	Size
cantestV2.41	12/19/2022 4:15 PM	Application	10,715 KB

Destination Folder  
C:\Program Files (x86)\CANTest\

Space required: 26.4MB  
Space available: 345.2GB

ZHIYUAN

< Back Install Cancel

12. Almost at the end of the installation, there will be a prompt. Click on "? (Y)".

The screenshot shows a Windows File Explorer window with the following details:

- Address bar: eFlex CAN Upgrade Package > CAN-tool-Drivers > CAN-Tool Additional Driver
- Table of files:

Name	Date modified	Type	Size
cantestV2.41	12/19/2022 4:15 PM	Application	10,715 KB
- Left sidebar: Quick access, Working Files, Documents, Pictures, Docs, Downloads, New folder, Screenshots, OneDrive, OneDrive - Personal, This PC, 3D Objects, Desktop, Documents, Downloads, Music, Pictures, Videos, Windows-SSD (C:), Network.
- Taskbar: Windows Start button, search bar (Type here to search), and taskbar icons for Chrome, Teams, Word, Excel, and other applications.

The installation dialog box, titled 'CANTest 2.41 Setup', is in the 'Installing' phase. It displays the following text:

Microsoft Visual C++ 2005 SP1 安装程序  
????????????? PAGE DOWN ??????????????

MICROSOFT 软件许可条款  
MICROSOFT VISUAL C++ 2005 RUNTIME LIBRARIES

本许可条款是 Microsoft Corporation (或您所在地的 Microsoft Corporation 关联公司) 与您之间达成的协议。请阅读本条款的内容。本条款适用于上述, 其中包括您用来接收该软件的媒体 (若有)。本条款也适用于 Microsoft:

- \* 更新、
- \* 补充、
- \* 基于 Internet 的服务和
- \* 支持服务

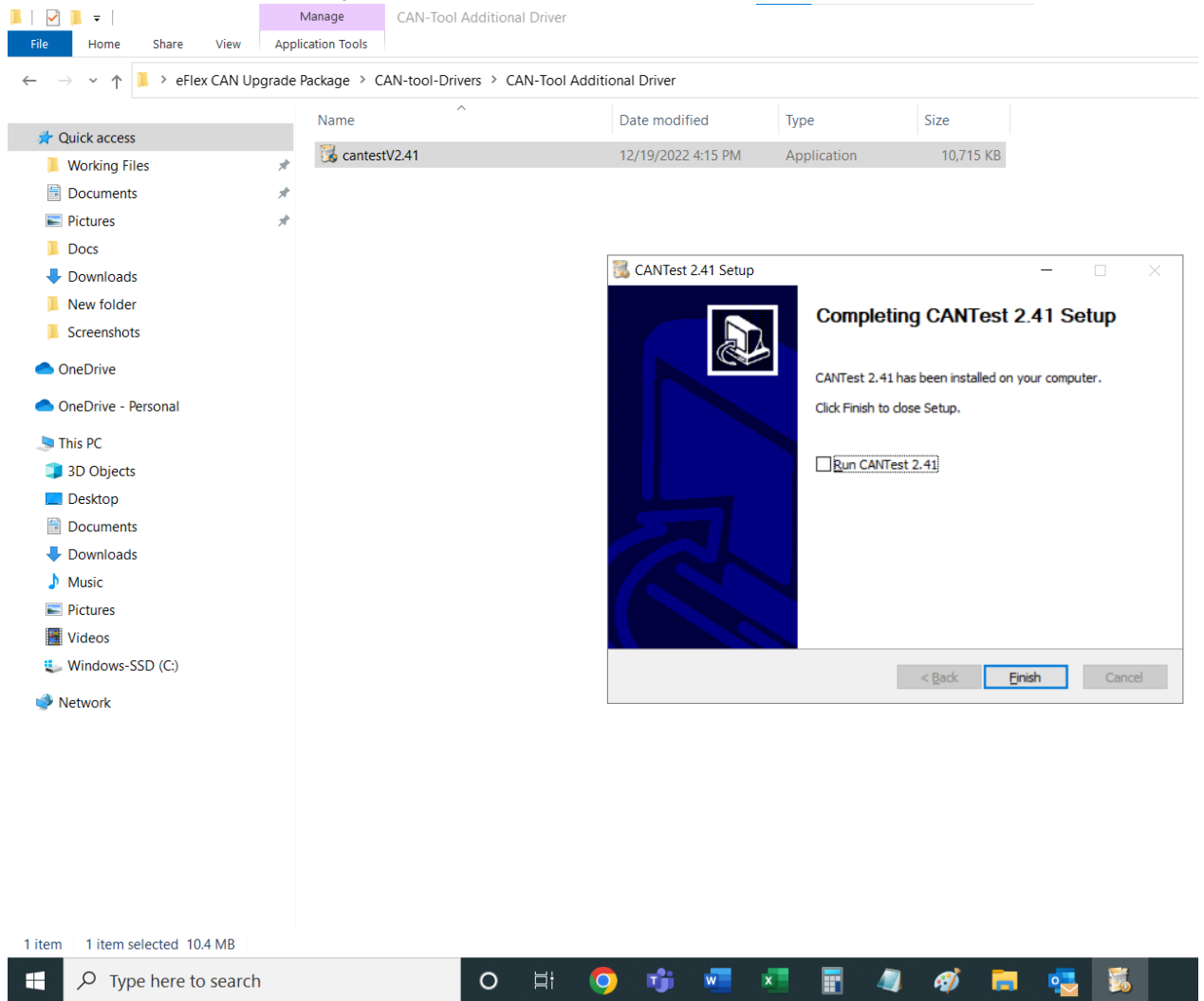
为此软件提供的 (除非下述内容附带有其他条款)。如果确实附

???????????????????? ???? "?" , ??????????????????, ?????????

ZHIYUAN

? (Y) ? (N) Cancel

13. Once the installation is completed, uncheck "Run CANTest 2.41" and click "Finish".



14. Go back to folder "eFlex CAN Upgrade Package".

**The drivers only have to be installed once. Keep the CANTool connected to the computer and now it's time to perform an actual firmware update.**

# Updating Firmware

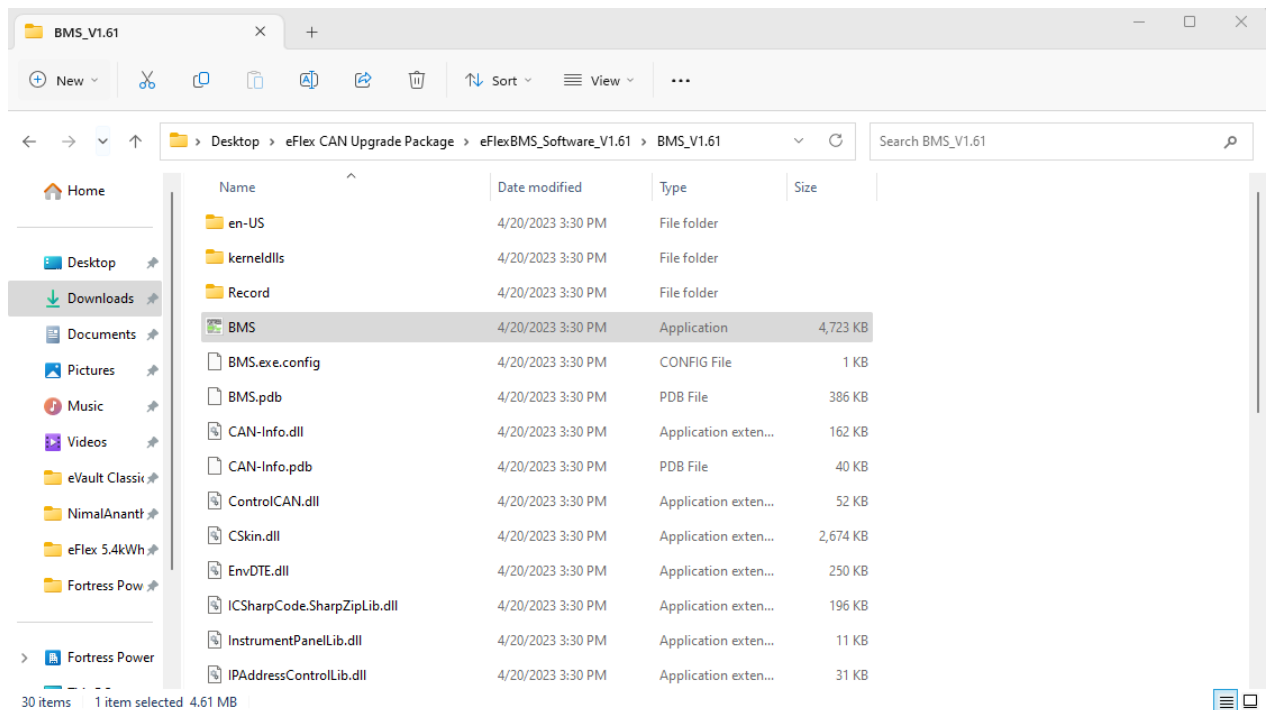
## **Important!**

There must be no current flow to or from any battery in the system during the firmware update process. It is a good idea to have the battery breakers on all Sol-Arks in the system in the 'OFF' position.

Firmware must be updated on one battery at a time. During the firmware update, the battery must be communicating neither with an inverter nor with any other battery. Unplug the battery to inverter communication cable, next, turn off the other batteries in the loop and keep turned on only the battery that is receiving the new firmware (later turning off this battery and turning on the next battery to receive the firmware, repeating this for all the batteries in the system). There must be now current flow to or from the batteries in the process.

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 ethernet ports.

1. Open "eFlex CAN Upgrade Package" folder, then open "eFlex-BMS-Software-V...." folder and double click on the subfolder with the same folder name, "eFlex-BMS-Software-V....". Afterwards, Find a file named "BMS". Open this file by double-clicking on it.



2. You might see something similar to the one shown below. If so, click on "More info" in the blue window.

File Explorer window showing the path: eFlex CAN Upgrade Package > eFlex-BMS-Software-V.0628 > eFlex BMS Software (V.0628). The window title is "eFlex BMS Software (V.0628)".

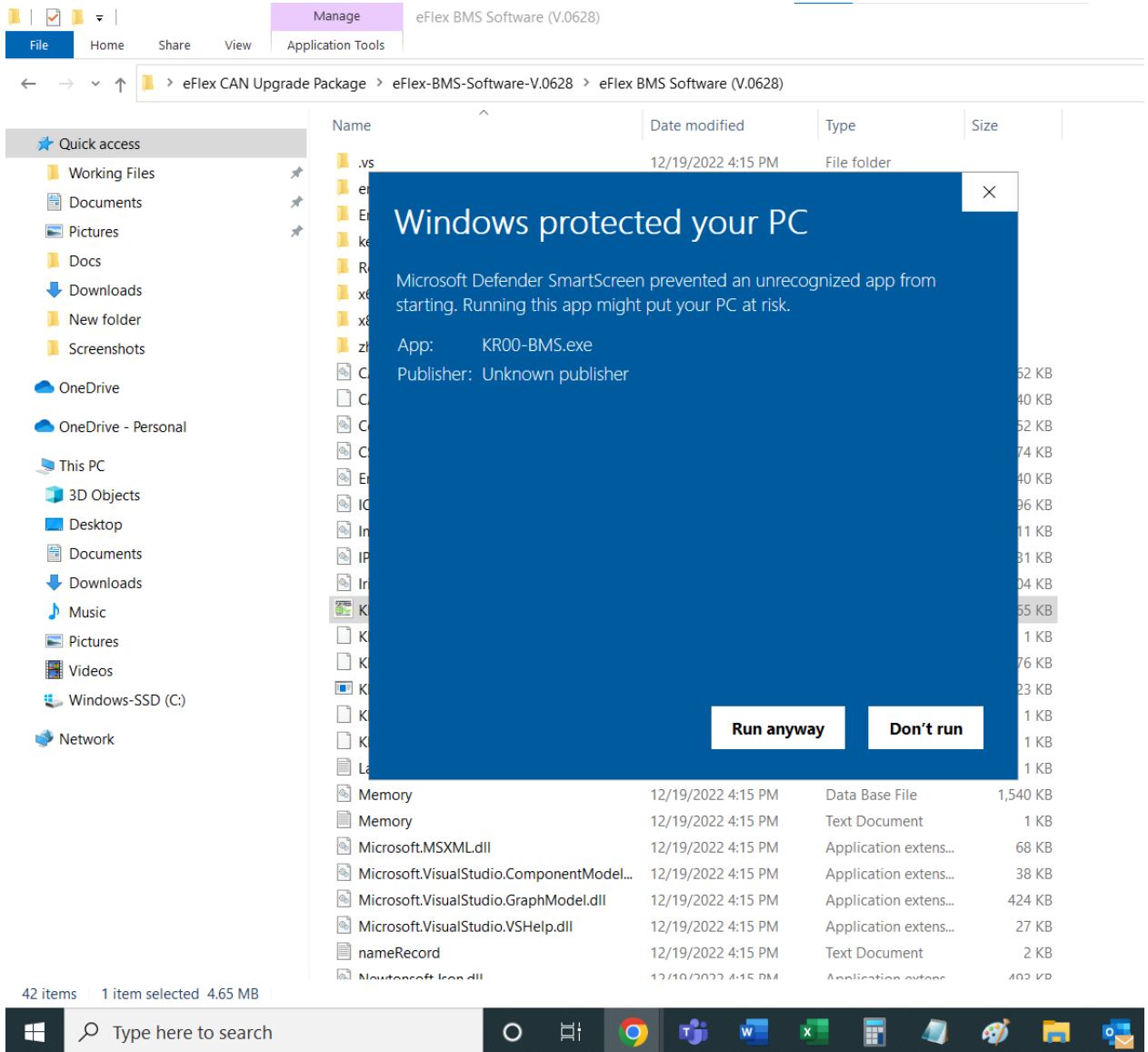
The left sidebar shows "Quick access" and "This PC" sections. The main pane displays a list of files and folders. A "Windows protected your PC" dialog box is overlaid on the list, stating: "Microsoft Defender SmartScreen prevented an unrecognized app from starting. Running this app might put your PC at risk. [More info](#)". A "Don't run" button is visible in the bottom right of the dialog.

Name	Date modified	Type	Size
.vs	12/19/2022 4:15 PM	File folder	
en			52 KB
Er			40 KB
ke			52 KB
R			74 KB
x			40 KB
x			96 KB
zh			11 KB
C			81 KB
C			104 KB
C			55 KB
C			1 KB
C			76 KB
C			23 KB
C			1 KB
C			1 KB
C			1 KB
Memory	12/19/2022 4:15 PM	Data Base File	1,540 KB
Memory	12/19/2022 4:15 PM	Text Document	1 KB
Microsoft.MSXML.dll	12/19/2022 4:15 PM	Application extens...	68 KB
Microsoft.VisualStudio.ComponentModel...	12/19/2022 4:15 PM	Application extens...	38 KB
Microsoft.VisualStudio.GraphModel.dll	12/19/2022 4:15 PM	Application extens...	424 KB
Microsoft.VisualStudio.VSHelp.dll	12/19/2022 4:15 PM	Application extens...	27 KB
nameRecord	12/19/2022 4:15 PM	Text Document	2 KB
Newtonsoft.Json.dll	12/19/2022 4:15 PM	Application extens...	402 KB

42 items 1 item selected 4.65 MB

Windows taskbar: Type here to search, Task View, Chrome, Teams, Word, Excel, Calculator, File Explorer, Paint, Mail.

3. Next, click on "Run anyway".



4. Now the BMS software is open. In the top left corner of the software click on "Communication Configuration" and in the dropdown of it click on "CAN".

Communication Configuration Parameters Setting Record Export Data Language Select

**CAN**

**WIFI**

Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Max Cell Volt Num - Min Cell Volt(mV) - Min Cell Volt Num - Max Temp(°C) - Max Temp Num - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWH) - UPS Manufacturer - 01 <span>Detail</span> Update UPS WiFi	Basic information Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Max Cell Volt Num - Min Cell Volt(mV) - Min Cell Volt Num - Max Temp(°C) - Max Temp Num - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWH) - UPS Manufacturer - 02 <span>Detail</span> Update UPS WiFi	Basic information Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Max Cell Volt Num - Min Cell Volt(mV) - Min Cell Volt Num - Max Temp(°C) - Max Temp Num - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWH) - UPS Manufacturer - 03 <span>Detail</span> Update UPS WiFi	Basic information Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Max Cell Volt Num - Min Cell Volt(mV) - Min Cell Volt Num - Max Temp(°C) - Max Temp Num - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWH) - UPS Manufacturer - 04 <span>Detail</span> Update UPS WiFi
--	---	---	---

State

Type here to search

- In the window that opens next, click on "Connection CAN" without changing any parameters.

Communication Configuration Parameters Setting Record Export Data Language Select

The screenshot displays a software interface for BMS configuration. At the top, there are navigation tabs: "Communication Configuration", "Parameters Setting", "Record", "Export Data", and "Language Select". The main area is divided into a grid of panels, each representing a device unit (01, 02, 03, 04). Each panel contains a list of parameters such as "Battery ID", "Qty\_Batt", "Unit Voltage", "Unit Current", "Unit SOC", "Charge Relay Status", "Discharge Relay Status", "Pre-charge Relay Status", "System Average Voltage", "System Unit Quantity", "Battery Parallel Status", "Insulation resistance(kΩ)", "Pre\_Volt(V)", "Max Cell Volt(mV)", "Min Cell Volt(mV)", "Max Temp(°C)", "Min Temp(°C)", "Software Version", "Hardware Version", "Alarm Level", "Cycle Counts", "Balance Volt(V)", "Discharge Energy(kWH)", and "UPS Manufacturer". Each panel has a "Detail" button, an "Update" button, and a "UPS WiFi" button. A "Communication Configuration" dialog box is open in the center, with the following fields: "Choose CAN Device" (dropdown menu showing "USBCAN2\USBCAN2A"), "CAN Channel" (dropdown menu showing "0"), and "CAN Baud Rate" (dropdown menu showing "250K"). Below these fields are two buttons: "Disconnect CAN" and "Connection CAN". The Windows taskbar is visible at the bottom of the screen, showing the search bar and various application icons.

6. If everything so far was done correctly, you'll see "CAN Connected", click "OK" in the success window.



Communication Configuration Parameters Setting Record Export Data Language Select

Basic information Battery ID - Qty\_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status Discharge Relay Status Pre-charge Relay Status System Average Voltage System Unit Quantity Battery Parallel Status Insulation resistance(kΩ) Pre\_Volt(V) Max Cell Volt(mV) Max Cell Volt Num Min Cell Volt(mV) Min Cell Volt Num Max Temp(°C) Max Temp Num Min Temp(°C) Min Temp Num Software Version Hardware Version Alarm Level Cycle Counts Balance Volt(V) Discharge Energy(kWH) UPS Manufacturer

01 Detail Update UPS WiFi

02 Detail Update UPS WiFi

03 Detail Update UPS WiFi

04 Detail Update UPS WiFi

State

Type here to search

7. Once the communication between a computer and a battery is established, the lines are populated as seen below.

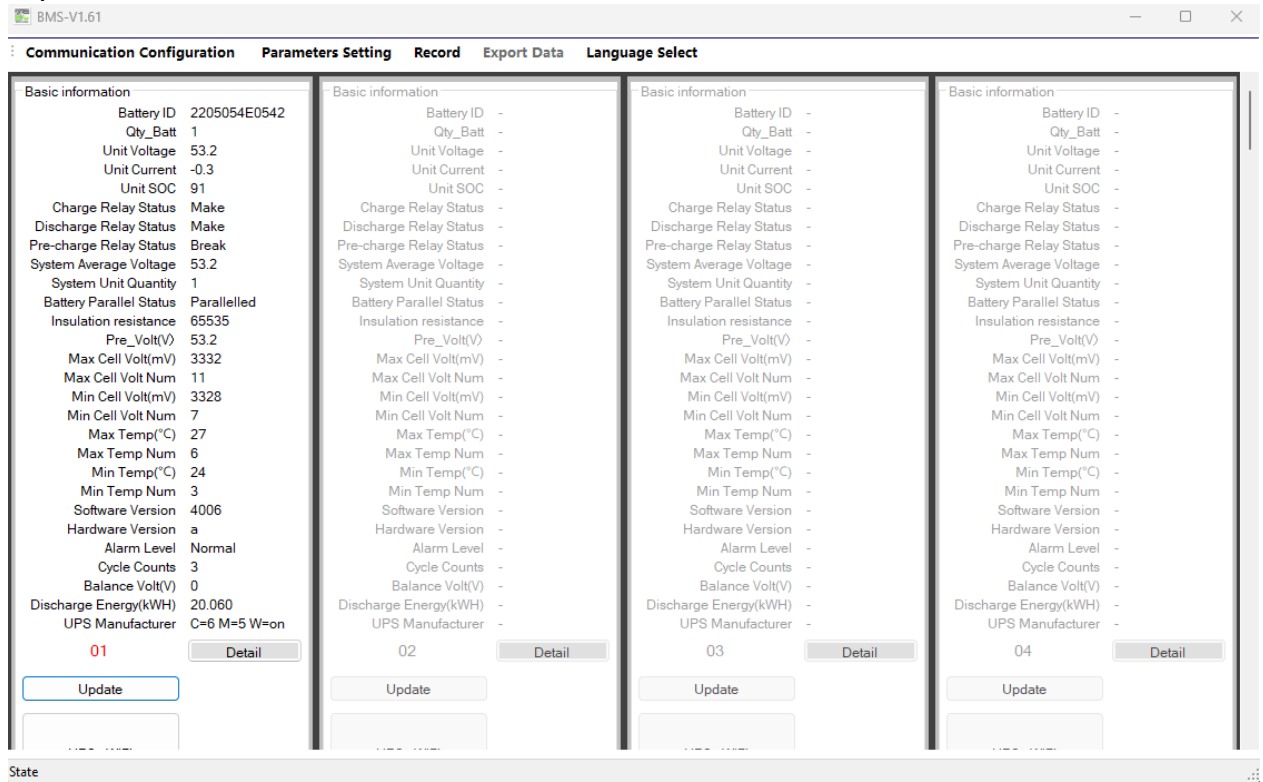
Communication Configuration Parameters Setting Record Export Data Language Select

01	02	03	04
<p>Basic information</p> <p>Battery ID 2009054E0133</p> <p>Qty_Batt 1</p> <p>Unit Voltage 54.6</p> <p>Unit Current -0.5</p> <p>Unit SOC 100</p> <p>Charge Relay Status Make</p> <p>Discharge Relay Status Make</p> <p>Pre-charge Relay Status Break</p> <p>System Average Voltage 546</p> <p>System Unit Quantity 1</p> <p>Battery Parallel Status Parallellled</p> <p>Insulation resistance(kΩ) 65535</p> <p>Pre_Volt(V) 553</p> <p>Max Cell Volt(mV) 3547</p> <p>Max Cell Volt Num 7</p> <p>Min Cell Volt(mV) 3339</p> <p>Min Cell Volt Num 16</p> <p>Max Temp(°C) 26</p> <p>Max Temp Num 6</p> <p>Min Temp(°C) 24</p> <p>Min Temp Num 3</p> <p>Software Version 3010</p> <p>Hardware Version d</p> <p>Alarm Level 2</p> <p>Cycle Counts 12</p> <p>Balance Volt(V) 0</p> <p>Discharge Energy(kWH) 68.966</p> <p>UPS Manufacturer C=2 M=5 W=on</p> <p><b>01</b></p> <p>Update</p> <p>UPS WiFi</p>	<p>Basic information</p> <p>Battery ID -</p> <p>Qty_Batt -</p> <p>Unit Voltage -</p> <p>Unit Current -</p> <p>Unit SOC -</p> <p>Charge Relay Status -</p> <p>Discharge Relay Status -</p> <p>Pre-charge Relay Status -</p> <p>System Average Voltage -</p> <p>System Unit Quantity -</p> <p>Battery Parallel Status -</p> <p>Insulation resistance(kΩ) -</p> <p>Pre_Volt(V) -</p> <p>Max Cell Volt(mV) -</p> <p>Max Cell Volt Num -</p> <p>Min Cell Volt(mV) -</p> <p>Min Cell Volt Num -</p> <p>Max Temp(°C) -</p> <p>Max Temp Num -</p> <p>Min Temp(°C) -</p> <p>Min Temp Num -</p> <p>Software Version -</p> <p>Hardware Version -</p> <p>Alarm Level -</p> <p>Cycle Counts -</p> <p>Balance Volt(V) -</p> <p>Discharge Energy(kWH) -</p> <p>UPS Manufacturer -</p> <p>02</p> <p>Update</p> <p>UPS WiFi</p>	<p>Basic information</p> <p>Battery ID -</p> <p>Qty_Batt -</p> <p>Unit Voltage -</p> <p>Unit Current -</p> <p>Unit SOC -</p> <p>Charge Relay Status -</p> <p>Discharge Relay Status -</p> <p>Pre-charge Relay Status -</p> <p>System Average Voltage -</p> <p>System Unit Quantity -</p> <p>Battery Parallel Status -</p> <p>Insulation resistance(kΩ) -</p> <p>Pre_Volt(V) -</p> <p>Max Cell Volt(mV) -</p> <p>Max Cell Volt Num -</p> <p>Min Cell Volt(mV) -</p> <p>Min Cell Volt Num -</p> <p>Max Temp(°C) -</p> <p>Max Temp Num -</p> <p>Min Temp(°C) -</p> <p>Min Temp Num -</p> <p>Software Version -</p> <p>Hardware Version -</p> <p>Alarm Level -</p> <p>Cycle Counts -</p> <p>Balance Volt(V) -</p> <p>Discharge Energy(kWH) -</p> <p>UPS Manufacturer -</p> <p>03</p> <p>Update</p> <p>UPS WiFi</p>	<p>Basic information</p> <p>Battery -</p> <p>Qty_B -</p> <p>Unit Volta -</p> <p>Unit Curre -</p> <p>Unit SC -</p> <p>Charge Relay Stat -</p> <p>Discharge Relay Stat -</p> <p>Pre-charge Relay Stat -</p> <p>System Average Volta -</p> <p>System Unit Quan -</p> <p>Battery Parallel Stat -</p> <p>Insulation resistance(k -</p> <p>Pre_Volt( -</p> <p>Max Cell Volt(nr -</p> <p>Max Cell Volt Nu -</p> <p>Min Cell Volt(nr -</p> <p>Min Cell Volt Nu -</p> <p>Max Temp(° -</p> <p>Max Temp Nu -</p> <p>Min Temp(° -</p> <p>Min Temp Nu -</p> <p>Software Versi -</p> <p>Hardware Versi -</p> <p>Alarm Le -</p> <p>Cycle Cour -</p> <p>Balance Volt -</p> <p>Discharge Energy(kW -</p> <p>UPS Manufactu -</p> <p>04</p> <p>Update</p> <p>UPS WiFi</p>

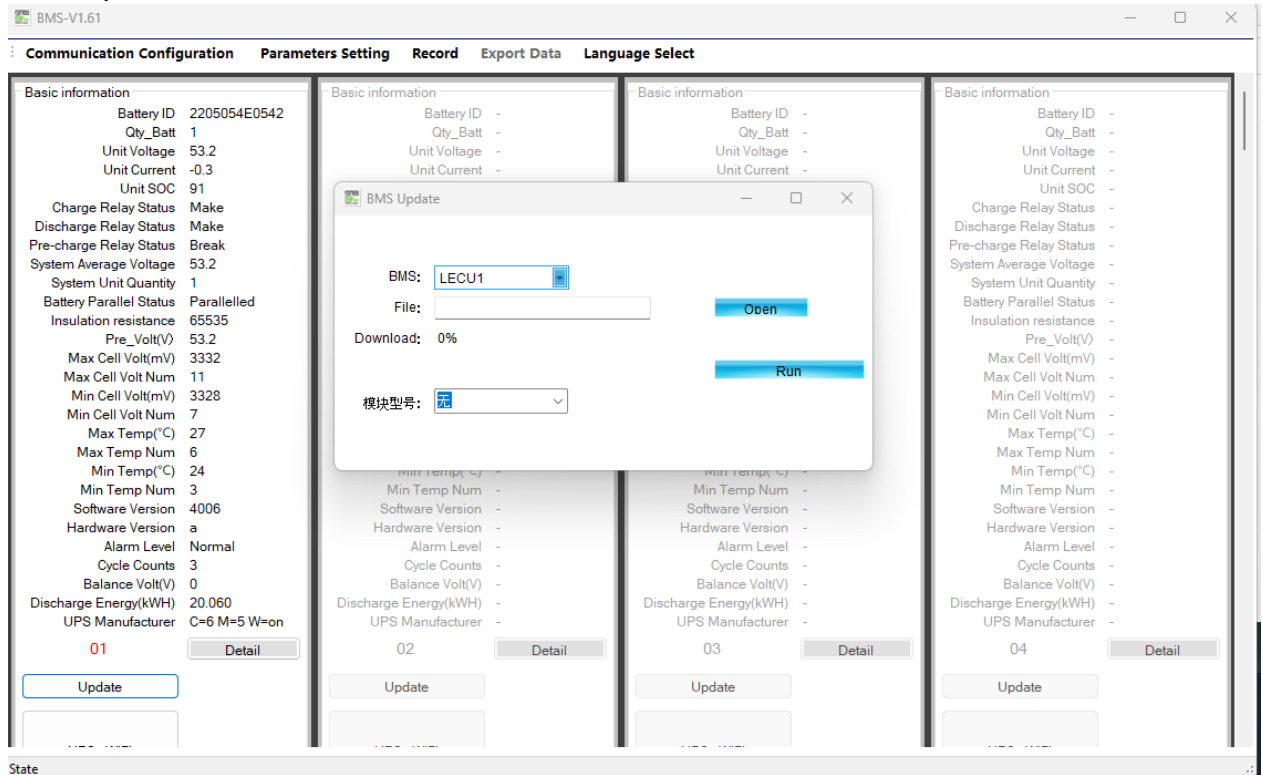
State

- It's time to update the firmware file.  
To continue the process by selecting the appropriate firmware version, click on

## "Update".

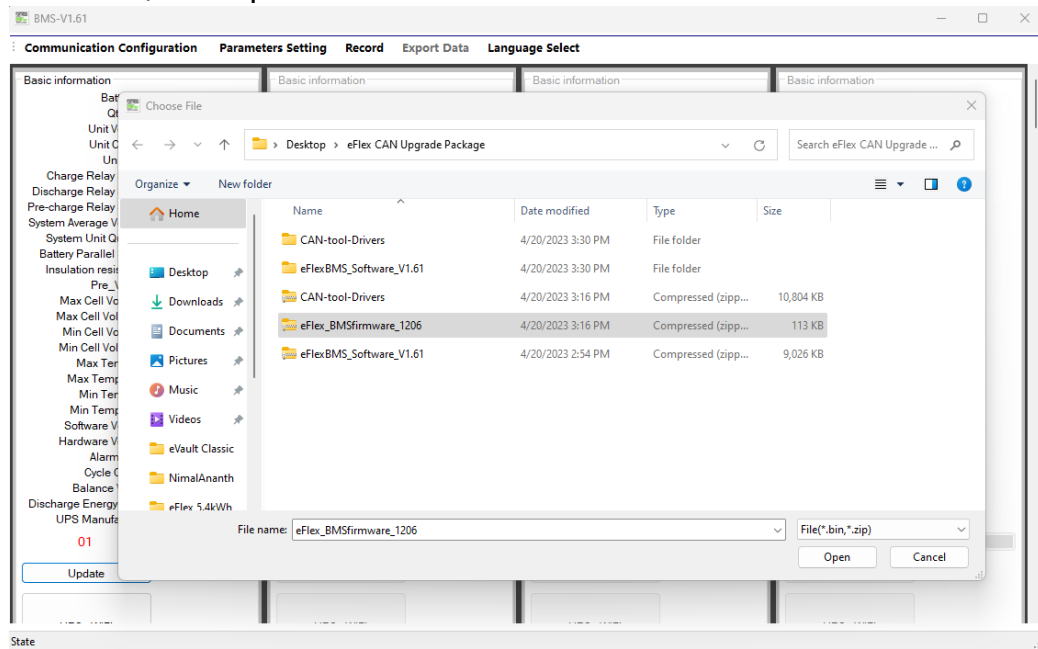


## 9. Click "Open".

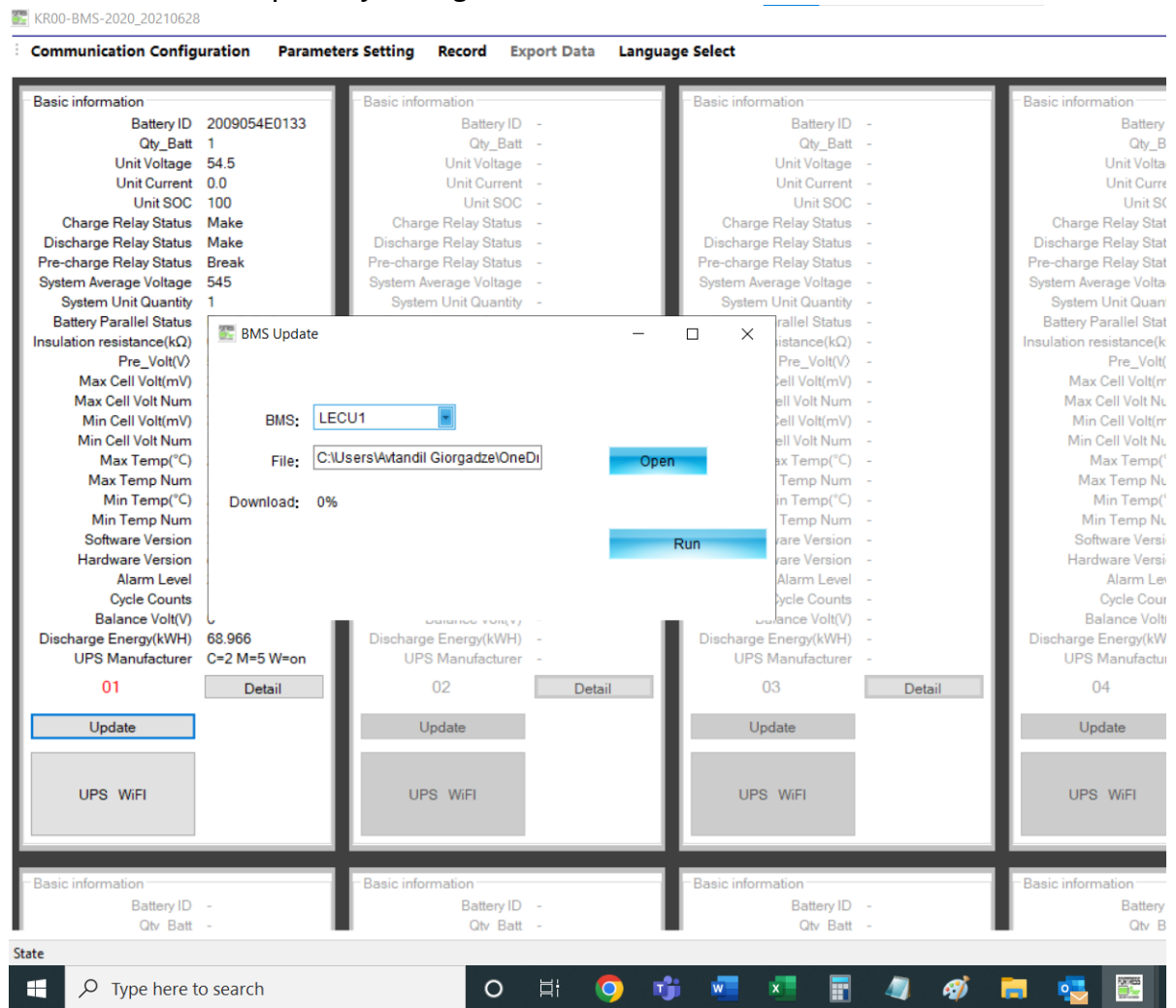


10. Navigate to the "eFlex CAN Upgrade Package" in this pop-up window, double-click on "eFlex CAN Upgrade Package" and then click on "eFlex\_BMSfirmware\_12.06".

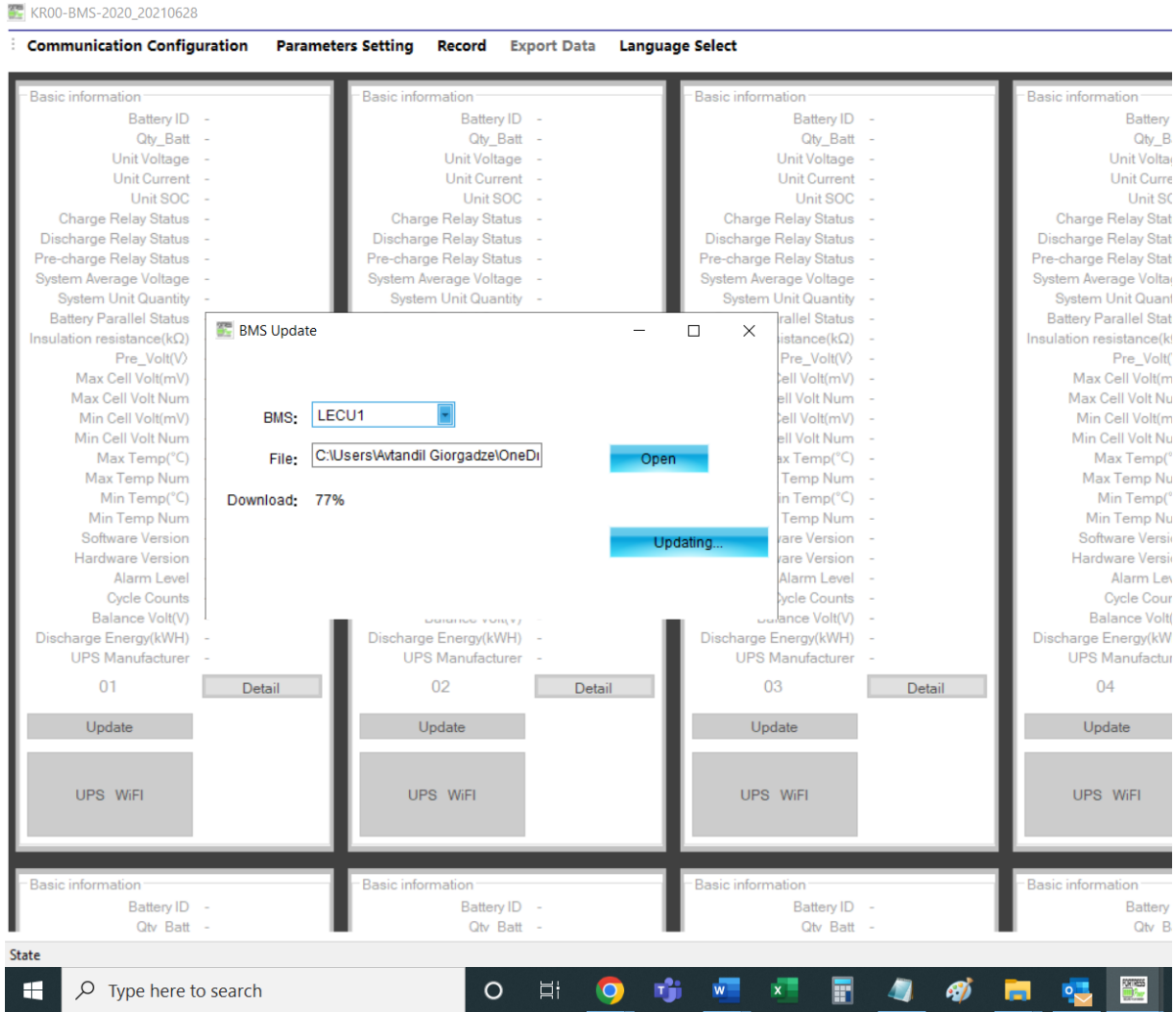
Afterwards, click "Open".



11. Initiate the firmware update by clicking "Run".



12. Percentage will start increasing.



13. At the end of the firmware update, you'll see a success message as shown below.  
Now the firmware is updated. You may close this window and disconnect the CAN

tool from the battery.

KR00-BMS-2020\_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

The screenshot displays a software interface for BMS (Battery Management System) configuration. At the top, there are navigation tabs: "Communication Configuration", "Parameters Setting", "Record", "Export Data", and "Language Select". The main area is divided into a grid of four columns, each representing a battery unit (01, 02, 03, 04). Each unit has a "Basic information" section with parameters like Battery ID, Qty\_Batt, Unit Voltage, Unit Current, Unit SOC, Charge Relay Status, Discharge Relay Status, Pre-charge Relay Status, System Average Voltage, System Unit Quantity, Battery Parallel Status, Insulation resistance(kΩ), Pre\_Volt(V), Max Cell Volt(mV), Max Cell Volt Num, Min Cell Volt(mV), Min Cell Volt Num, Max Temp(°C), Max Temp Num, Min Temp(°C), Min Temp Num, Software Version, Hardware Version, Alarm Level, Cycle Counts, Balance Volt(V), Discharge Energy(kWH), and UPS Manufacturer. Below these parameters are "Detail", "Update", and "UPS WiFi" buttons. A central dialog box titled "BMS Update" is open, showing "BMS: LECU1", "File: C:\Users\Avt...", and "Download: 100%". A smaller "Completed" dialog box with a yellow warning icon and the text "Update Completed" is overlaid on top, with an "OK" button. The Windows taskbar is visible at the bottom, showing the search bar and various application icons.

The firmware is now updated!

# Selecting Protocol ID

Different communication protocols are required for different inverters. This article shows how to change CAN ("C") or MOD ("M") protocol ID. Refer to the table below to see which protocol ID is appropriate for your inverter.

UPS - CAN		
Protocol ID	Protocol Name	Notes
2	SMA CANBUS	SMA SunnyIsland
3	Victron CANBUS	
6	Sol-Ark CANBUS	Default

UPS - Modbus		
Protocol ID	Protocol Name	Notes
1	Sol-Ark MODBUS	No longer used
2	Schneider MODBUS	
5	Envy MODBUS	Default

1.

KR00-BMS-2020\_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

The screenshot displays a web-based configuration interface for a Battery Management System (BMS). At the top, there are navigation tabs: "Communication Configuration", "Parameters Setting", "Record", "Export Data", and "Language Select". Below this, there are four vertical panels, each representing a different BMS unit (labeled 01, 02, 03, and 04). Each panel contains a list of parameters and their values. In the first panel (unit 01), the "UPS Manufacturer" parameter is highlighted with a red rectangular box, and its value is "C=2 M=5 W=on". Below the parameters in each panel are buttons for "Update" and "Detail". At the bottom of the interface, there is a search bar with the text "Type here to search" and a taskbar with various application icons.

- Click on "UPS WiFi" and Click on the downward arrow next to the number next to "UPS-CAN:", afterwards click on the appropriate number from the dropdown list of the numbers.

KR00-BMS-2020\_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

Basic information

Battery ID	2009054E0133
Qty_Batt	1
Unit Voltage	54.3
Unit Current	-0.3
Unit SOC	100
Charge Relay Status	Make
Discharge Relay Status	Make
Pre-charge Relay Status	Break
System Average Voltage	543
System Unit Quantity	1
Battery Parallel Status	Parallelled
Insulation resistance(kΩ)	6553
Pre_Volt(V)	551
Max Cell Volt(mV)	3497
Max Cell Volt Num	7
Min Cell Volt(mV)	3336
Min Cell Volt Num	9
Max Temp(°C)	25
Max Temp Num	1
Min Temp(°C)	24
Min Temp Num	3
Software Version	3010
Hardware Version	d
Alarm Level	3
Cycle Counts	12
Balance Volt(V)	0
Discharge Energy(kWH)	68.971
UPS Manufacturer	C=2 M=5 W=on

01

Basic information

Battery ID	-
Qty_Batt	-
Unit Voltage	-
Unit Current	-
Unit SOC	-
Charge Relay Status	-
Discharge Relay Status	-
Pre-charge Relay Status	-
System Average Voltage	-
System Unit Quantity	-
Battery Parallel Status	-
Insulation resistance(kΩ)	-
Pre_Volt(V)	-
Max Cell Volt(mV)	-
Max Cell Volt Num	-
Min Cell Volt(mV)	-
Min Cell Volt Num	-
Max Temp(°C)	-
Max Temp Num	-
Min Temp(°C)	-
Min Temp Num	-
Software Version	-
Hardware Version	-
Alarm Level	-
Cycle Counts	-
Balance Volt(V)	-
Discharge Energy(kWH)	-
UPS Manufacturer	-

02

Basic information

Battery ID	-
Qty_Batt	-
Unit Voltage	-
Unit Current	-
Unit SOC	-
Charge Relay Status	-
Discharge Relay Status	-
Pre-charge Relay Status	-
System Average Voltage	-
System Unit Quantity	-
Battery Parallel Status	-
Insulation resistance(kΩ)	-
Pre_Volt(V)	-
Max Cell Volt(mV)	-
Max Cell Volt Num	-
Min Cell Volt(mV)	-
Min Cell Volt Num	-
Max Temp(°C)	-
Max Temp Num	-
Min Temp(°C)	-
Min Temp Num	-
Software Version	-
Hardware Version	-
Alarm Level	-
Cycle Counts	-
Balance Volt(V)	-
Discharge Energy(kWH)	-
UPS Manufacturer	-

03

Basic information

Battery ID	-
Qty_Batt	-
Unit Voltage	-
Unit Current	-
Unit SOC	-
Charge Relay Status	-
Discharge Relay Status	-
Pre-charge Relay Status	-
System Average Voltage	-
System Unit Quantity	-
Battery Parallel Status	-
Insulation resistance(kΩ)	-
Pre_Volt(V)	-
Max Cell Volt(mV)	-
Max Cell Volt Num	-
Min Cell Volt(mV)	-
Min Cell Volt Num	-
Max Temp(°C)	-
Max Temp Num	-
Min Temp(°C)	-
Min Temp Num	-
Software Version	-
Hardware Version	-
Alarm Level	-
Cycle Counts	-
Balance Volt(V)	-
Discharge Energy(kWH)	-
UPS Manufacturer	-

04

State

Type here to search

- You'll see that after clicking the number, the dropdown list will disappear and the number that you've selected will be displayed in the box. Next, click "Set".



01	02	03	04
<p><b>Basic information</b></p> <p>Battery ID 2009054E0133 Qty_Batt 1 Unit Voltage 54.2 Unit Current -0.3 Unit SOC 100 Charge Relay Status Make Discharge Relay Status Make Pre-charge Relay Status Break System Average Voltage 542 System Unit Quantity 1 Battery Parallel Status Paralleled Insulation resistance(kΩ) 6553 Pre_Volt(V) 551 Max Cell Volt(mV) 3493 Max Cell Volt Num 7 Min Cell Volt(mV) 3336 Min Cell Volt Num 9 Max Temp(°C) 25 Max Temp Num 1 Min Temp(°C) 24 Min Temp Num 3 Software Version 3010 Hardware Version d Alarm Level 3 Cycle Counts 12 Balance Volt(V) 0 Discharge Energy(kWH) 68.971 UPS Manufacturer C=1 M=5 W=on</p> <p><b>01</b> <input type="button" value="Detail"/></p> <p><input type="button" value="Update"/></p> <p><input type="button" value="UPS WiFi"/></p>	<p><b>Basic information</b></p> <p>Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Max Cell Volt Num - Min Cell Volt(mV) - Min Cell Volt Num - Max Temp(°C) - Max Temp Num - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWH) - UPS Manufacturer -</p> <p><b>02</b> <input type="button" value="Detail"/></p> <p><input type="button" value="Update"/></p> <p><input type="button" value="UPS WiFi"/></p>	<p><b>Basic information</b></p> <p>Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Max Cell Volt Num - Min Cell Volt(mV) - Min Cell Volt Num - Max Temp(°C) - Max Temp Num - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWH) - UPS Manufacturer -</p> <p><b>03</b> <input type="button" value="Detail"/></p> <p><input type="button" value="Update"/></p> <p><input type="button" value="UPS WiFi"/></p>	<p><b>Basic information</b></p> <p>Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Max Cell Volt Num - Min Cell Volt(mV) - Min Cell Volt Num - Max Temp(°C) - Max Temp Num - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWH) - UPS Manufacturer -</p> <p><b>04</b> <input type="button" value="Detail"/></p> <p><input type="button" value="Update"/></p> <p><input type="button" value="UPS WiFi"/></p>

WiFi

UPS-CAN: 8

UPS-Modbus: 1

4. Once clicked on "Set", you'll see a Success message on your screen. Click "OK".

KR00-BMS-2020\_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

01	02	03	04
<p>Basic information</p> <p>Battery ID 2009054E0133</p> <p>Qty_Batt 1</p> <p>Unit Voltage 54.2</p> <p>Unit Current -0.3</p> <p>Unit SOC 100</p> <p>Charge Relay Status Make</p> <p>Discharge Relay Status Make</p> <p>Pre-charge Relay Status Break</p> <p>System Average Voltage 542</p> <p>System Unit Quantity 1</p> <p>Battery Parallel Status Paralleled</p> <p>Insulation resistance(kΩ) 6553</p> <p>Pre_Volt(V) 551</p> <p>Max Cell Volt(mV) 3488</p> <p>Max Cell Volt Num 7</p> <p>Min Cell Volt(mV) 3336</p> <p>Min Cell Volt Num 9</p> <p>Max Temp(°C) 25</p> <p>Max Temp Num 1</p> <p>Min Temp(°C) 24</p> <p>Min Temp Num 3</p> <p>Software Version 3010</p> <p>Hardware Version d</p> <p>Alarm Level 3</p> <p>Cycle Counts 12</p> <p>Balance Volt(V) 0</p> <p>Discharge Energy(kWH) 68.971</p> <p>UPS Manufacturer C=3 M=5 W=on</p> <p>01</p> <p>Update</p> <p>UPS WiFi</p>	<p>Basic information</p> <p>Battery ID -</p> <p>Qty_Batt -</p> <p>Unit Voltage -</p> <p>Unit Current -</p> <p>Unit SOC -</p> <p>Charge Relay Status -</p> <p>Discharge Relay Status -</p> <p>Pre-charge Relay Status -</p> <p>System Average Voltage -</p> <p>System Unit Quantity -</p> <p>Battery Parallel Status -</p> <p>Insulation resistance(kΩ) -</p> <p>Pre_Volt(V) -</p> <p>Max Cell Volt(mV) -</p> <p>Max Cell Volt Num -</p> <p>Min Cell Volt(mV) -</p> <p>Min Cell Volt Num -</p> <p>Max Temp(°C) -</p> <p>Max Temp Num -</p> <p>Min Temp(°C) -</p> <p>Min Temp Num -</p> <p>Software Version -</p> <p>Hardware Version -</p> <p>Alarm Level -</p> <p>Cycle Counts -</p> <p>Balance Volt(V) -</p> <p>Discharge Energy(kWH) -</p> <p>UPS Manufacturer -</p> <p>02</p> <p>Update</p> <p>UPS WiFi</p>	<p>Basic information</p> <p>Battery ID -</p> <p>Qty_Batt -</p> <p>Unit Voltage -</p> <p>Unit Current -</p> <p>Unit SOC -</p> <p>Charge Relay Status -</p> <p>Discharge Relay Status -</p> <p>Pre-charge Relay Status -</p> <p>System Average Voltage -</p> <p>System Unit Quantity -</p> <p>Battery Parallel Status -</p> <p>Insulation resistance(kΩ) -</p> <p>Pre_Volt(V) -</p> <p>Max Cell Volt(mV) -</p> <p>Max Cell Volt Num -</p> <p>Min Cell Volt(mV) -</p> <p>Min Cell Volt Num -</p> <p>Max Temp(°C) -</p> <p>Max Temp Num -</p> <p>Min Temp(°C) -</p> <p>Min Temp Num -</p> <p>Software Version -</p> <p>Hardware Version -</p> <p>Alarm Level -</p> <p>Cycle Counts -</p> <p>Balance Volt(V) -</p> <p>Discharge Energy(kWH) -</p> <p>UPS Manufacturer -</p> <p>03</p> <p>Update</p> <p>UPS WiFi</p>	<p>Basic information</p> <p>Battery ID -</p> <p>Qty_Batt -</p> <p>Unit Voltage -</p> <p>Unit Current -</p> <p>Unit SOC -</p> <p>Charge Relay Status -</p> <p>Discharge Relay Status -</p> <p>Pre-charge Relay Status -</p> <p>System Average Voltage -</p> <p>System Unit Quantity -</p> <p>Battery Parallel Status -</p> <p>Insulation resistance(kΩ) -</p> <p>Pre_Volt(V) -</p> <p>Max Cell Volt(mV) -</p> <p>Max Cell Volt Num -</p> <p>Min Cell Volt(mV) -</p> <p>Min Cell Volt Num -</p> <p>Max Temp(°C) -</p> <p>Max Temp Num -</p> <p>Min Temp(°C) -</p> <p>Min Temp Num -</p> <p>Software Version -</p> <p>Hardware Version -</p> <p>Alarm Level -</p> <p>Cycle Counts -</p> <p>Balance Volt(V) -</p> <p>Discharge Energy(kWH) -</p> <p>UPS Manufacturer -</p> <p>04</p> <p>Update</p> <p>UPS WiFi</p>

State

Type here to search

5. And close the "Set window. Now you have successfully changed the protocol ID.

KR00-BMS-2020\_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

01	02	03	04
<b>Basic information</b> Battery ID 2009054E0133 Qty_Batt 1 Unit Voltage 54.2 Unit Current -0.3 Unit SOC 100 Charge Relay Status Make Discharge Relay Status Make Pre-charge Relay Status Break System Average Voltage 542 System Unit Quantity 1 Battery Parallel Status Paralleled Insulation resistance(kΩ) 65535 Pre_Volt(V) 551 Max Cell Volt(mV) 3486 Min Cell Volt(mV) 3486 Max Temp(°C) 70 Min Temp(°C) 0 Software Version 1.0 Hardware Version 1.0 Alarm Level 1 Cycle Counts 0 Balance Volt(V) 54.2 Discharge Energy(kWh) 68.971 UPS Manufacturer C=1 M=5 W=on	<b>Basic information</b> Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Min Cell Volt(mV) - Max Temp(°C) - Min Temp(°C) - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWh) - UPS Manufacturer -	<b>Basic information</b> Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Min Cell Volt(mV) - Max Temp(°C) - Min Temp(°C) - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWh) - UPS Manufacturer -	<b>Basic information</b> Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Min Cell Volt(mV) - Max Temp(°C) - Min Temp(°C) - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWh) - UPS Manufacturer -
01	02	03	04
Update	Update	Update	Update
UPS WiFi	UPS WiFi	UPS WiFi	UPS WiFi

State

Type here to search

6.

# Disabling Wi-Fi

1. To disable Wi-Fi on an eFlex unit, please follow the steps given in this article. "UPS Manufacturer line has "W=" and then either "on" or "off". This indicates whether the wifi is on or off on the battery. To turn off the Wi-Fi, open the eFlex BMS software and click on UPS WiFi.

KR00-BMS-2020\_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

01	02	03	04
<b>Basic information</b> Battery ID 2009054E0133 Qty_Batt 1 Unit Voltage 54.1 Unit Current -0.3 Unit SOC 100 Charge Relay Status Make Discharge Relay Status Make Pre-charge Relay Status Break System Average Voltage 541 System Unit Quantity 1 Battery Parallel Status Paralleled Insulation resistance(kΩ) 65535 Pre_Volt(V) 551 Max Cell Volt(mV) 3476 Max Cell Volt Num 7 Min Cell Volt(mV) 3335 Min Cell Volt Num 10 Max Temp(°C) 25 Max Temp Num 1 Min Temp(°C) 24 Min Temp Num 3 Software Version 3010 Hardware Version d Alarm Level 3 Cycle Counts 12 Balance Volt(V) 0 Discharge Energy(kWH) 68.971 UPS Manufacturer C=1 M= W=on	<b>Basic information</b> Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Max Cell Volt Num - Min Cell Volt(mV) - Min Cell Volt Num - Max Temp(°C) - Max Temp Num - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWH) - UPS Manufacturer -	<b>Basic information</b> Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Max Cell Volt Num - Min Cell Volt(mV) - Min Cell Volt Num - Max Temp(°C) - Max Temp Num - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWH) - UPS Manufacturer -	<b>Basic information</b> Battery Qty_E Unit Voltz Unit Curr Unit S Charge Relay Sta Discharge Relay Sta Pre-charge Relay Sta System Average Voltz System Unit Quar Battery Parallel Sta Insulation resistance(k Pre_Volt Max Cell Volt(n Max Cell Volt Ni Min Cell Volt(n Min Cell Volt Ni Max Temp( Max Temp Ni Min Temp( Min Temp Ni Software Vers Hardware Vers Alarm Le Cycle Cou Balance Voll Discharge Energy(kW UPS Manufactu
01	02	03	04
Update	Update	Update	Update
UPS WiFi	UPS WiFi	UPS WiFi	UPS WiFi
<b>Basic information</b> Battery ID - Qty Batt -	<b>Basic information</b> Battery ID - Qty Batt -	<b>Basic information</b> Battery ID - Qty Batt -	<b>Basic information</b> Battery Qty E

State

Type here to search

- Next, check mark the "WiFi" and click "Set".

The screenshot displays a web-based interface for a Battery Management System (BMS) configuration. The main window is titled "Communication Configuration" and contains several panels, each showing "Basic information" for a different unit. A modal dialog box titled "Set" is open in the foreground, allowing configuration for a specific unit. The dialog includes a checked "WiFi" checkbox, a "Set" button, and two dropdown menus for "UPS-CAN" (set to 1) and "UPS-Modbus" (set to 1), each with its own "Set" button. A "Quit" button is also present. The background interface shows various parameters such as Battery ID, Unit Voltage, and System Average Voltage for multiple units. At the bottom, a Windows taskbar is visible with the search bar and several application icons.

- You will see the success message. Click "OK", but don't close the window with a "WiFi" check-mark.

Communication Configuration Parameters Setting Record Export Data Language Select

01	02	03	04
<b>Basic information</b> Battery ID 2009054E0133 Qty_Batt 1 Unit Voltage 54.1 Unit Current -0.3 Unit SOC 100 Charge Relay Status Make Discharge Relay Status Make Pre-charge Relay Status Break System Average Voltage 541 System Unit Quantity 1 Battery Parallel Status Paralleled Insulation resistance(kΩ) 65535 Pre_Volt(V) - Max Cell Volt(mV) - Min Cell Volt(mV) - Max Temp(°C) - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level 3 Cycle Counts 12 Balance Volt(V) 0 Discharge Energy(kWH) 68.976 UPS Manufacturer C=1 M=5 W=on <b>UPS WiFi</b> Update	<b>Basic information</b> Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Min Cell Volt(mV) - Max Temp(°C) - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWH) - UPS Manufacturer - 02 Update UPS WiFi	<b>Basic information</b> Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Min Cell Volt(mV) - Max Temp(°C) - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWH) - UPS Manufacturer - 03 Update UPS WiFi	<b>Basic information</b> Battery ID - Qty_Batt - Unit Voltage - Unit Current - Unit SOC - Charge Relay Status - Discharge Relay Status - Pre-charge Relay Status - System Average Voltage - System Unit Quantity - Battery Parallel Status - Insulation resistance(kΩ) - Pre_Volt(V) - Max Cell Volt(mV) - Min Cell Volt(mV) - Max Temp(°C) - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kV) - UPS Manufactur - 04 Update UPS WiFi

State

Type here to search

- You'll notice that the check-mark that you set for "WiFi" is retained, but the Wi-Fi status is still "on".

Basic information	Basic information	Basic information	Basic information
Battery ID 2009054E0133	Battery ID -	Battery ID -	Battery ID -
Qty_Batt 1	Qty_Batt -	Qty_Batt -	Qty_Batt -
Unit Voltage 54.1	Unit Voltage -	Unit Voltage -	Unit Voltage -
Unit Current -0.3	Unit Current -	Unit Current -	Unit Current -
Unit SOC 100	Unit SOC -	Unit SOC -	Unit SOC -
Charge Relay Status Make	Charge Relay Status -	Charge Relay Status -	Charge Relay Status -
Discharge Relay Status Make	Discharge Relay Status -	Discharge Relay Status -	Discharge Relay Status -
Pre-charge Relay Status Break	Pre-charge Relay Status -	Pre-charge Relay Status -	Pre-charge Relay Status -
System Average Voltage 541	System Average Voltage -	System Average Voltage -	System Average Voltage -
System Unit Quantity 1	System Unit Quantity -	System Unit Quantity -	System Unit Quantity -
Battery Parallel Status Paralleled	Battery Parallel Status -	Battery Parallel Status -	Battery Parallel Status -
Insulation resistance(kΩ) 65535	Insulation resistance(kΩ) -	Insulation resistance(kΩ) -	Insulation resistance(kΩ) -
Pre_Volt(V) -	Pre_Volt(V) -	Pre_Volt(V) -	Pre_Volt(V) -
Max Cell Volt(mV) -	Max Cell Volt(mV) -	Max Cell Volt(mV) -	Max Cell Volt(mV) -
Min Cell Volt(mV) -	Min Cell Volt(mV) -	Min Cell Volt(mV) -	Min Cell Volt(mV) -
Max Temp(°C) -	Max Temp(°C) -	Max Temp(°C) -	Max Temp(°C) -
Min Temp(°C) -	Min Temp(°C) -	Min Temp(°C) -	Min Temp(°C) -
Software Version -	Software Version -	Software Version -	Software Version -
Hardware Version -	Hardware Version -	Hardware Version -	Hardware Version -
Alarm Level 3	Alarm Level -	Alarm Level -	Alarm Level -
Cycle Counts 12	Cycle Counts -	Cycle Counts -	Cycle Counts -
Balance Volt(V) 0	Balance Volt(V) -	Balance Volt(V) -	Balance Volt(V) -
Discharge Energy(kWH) 68.976	Discharge Energy(kWH) -	Discharge Energy(kWH) -	Discharge Energy(kWH) -
UPS Manufacturer C=1 M=5 W=on	UPS Manufacturer -	UPS Manufacturer -	UPS Manufacturer -
01 <a href="#">Detail</a>	02 <a href="#">Detail</a>	03 <a href="#">Detail</a>	04 <a href="#">Detail</a>
<a href="#">Update</a>	<a href="#">Update</a>	<a href="#">Update</a>	<a href="#">Update</a>
<a href="#">UPS WiFi</a>	<a href="#">UPS WiFi</a>	<a href="#">UPS WiFi</a>	<a href="#">UPS WiFi</a>

5. Now, uncheck-mark the WiFi and click on "Set".

KR00-BMS-2020\_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

Basic information	Basic information	Basic information	Basic information
Battery ID 2009054E0133	Battery ID -	Battery ID -	Battery
Qty_Batt 1	Qty_Batt -	Qty_Batt -	Qty_B
Unit Voltage 54.1	Unit Voltage -	Unit Voltage -	Unit Volt
Unit Current -0.3	Unit Current -	Unit Current -	Unit Curr
Unit SOC 100	Unit SOC -	Unit SOC -	Unit S
Charge Relay Status Make	Charge Relay Status -	Charge Relay Status -	Charge Relay Sta
Discharge Relay Status Make	Discharge Relay Status -	Discharge Relay Status -	Discharge Relay Sta
Pre-charge Relay Status Break	Pre-charge Relay Status -	Pre-charge Relay Status -	Pre-charge Relay Sta
System Average Voltage 541	System Average Voltage -	System Average Voltage -	System Average Volt
System Unit Quantity 1	System Unit Quantity -	System Unit Quantity -	System Unit Quar
Battery Parallel Status Paralleled	Battery Parallel Status -	Battery Parallel Status -	Battery Parallel Sta
Insulation resistance(kΩ) 65535	Insulation resistance(kΩ) -	Insulation resistance(kΩ) -	Insulation resistance(I
Pre_Volt(V) -	Pre_Volt(V) -	Pre_Volt(V) -	Pre_Volt
Max Cell Volt(mV) -	Max Cell Volt(mV) -	Max Cell Volt(mV) -	Max Cell Volt(r
Min Cell Volt(mV) -	Min Cell Volt(mV) -	Min Cell Volt(mV) -	Min Cell Volt N
Max Temp(°C) -	Max Temp(°C) -	Max Temp(°C) -	Max Temp(
Min Temp(°C) -	Min Temp(°C) -	Min Temp(°C) -	Min Temp(
Software Version -	Software Version -	Software Version -	Software Vers
Hardware Version -	Hardware Version -	Hardware Version -	Hardware Vers
Alarm Level 3	Alarm Level -	Alarm Level -	Alarm Le
Cycle Counts 12	Cycle Counts -	Cycle Counts -	Cycle Cou
Balance Volt(V) 0	Balance Volt(V) -	Balance Volt(V) -	Balance Vol
Discharge Energy(kWH) 68.976	Discharge Energy(kWH) -	Discharge Energy(kWH) -	Discharge Energy(kV
UPS Manufacturer C=1 M=5 W=on	UPS Manufacturer -	UPS Manufacturer -	UPS Manufactu
01 <input type="checkbox"/> WiFi <input type="checkbox"/> Set	02 <input type="checkbox"/> WiFi <input type="checkbox"/> Set	03 <input type="checkbox"/> WiFi <input type="checkbox"/> Set	04 <input type="checkbox"/> WiFi <input type="checkbox"/> Set
UPS-CAN: 1 Set	UPS-CAN: 1 Set	UPS-CAN: 1 Set	UPS-CAN: 1 Set
UPS-Modbus: 1 Set	UPS-Modbus: 1 Set	UPS-Modbus: 1 Set	UPS-Modbus: 1 Set
Update	Update	Update	Update
UPS WiFi	UPS WiFi	UPS WiFi	UPS WiFi

State

Type here to search



6. You'll see a success message window. Click "OK".

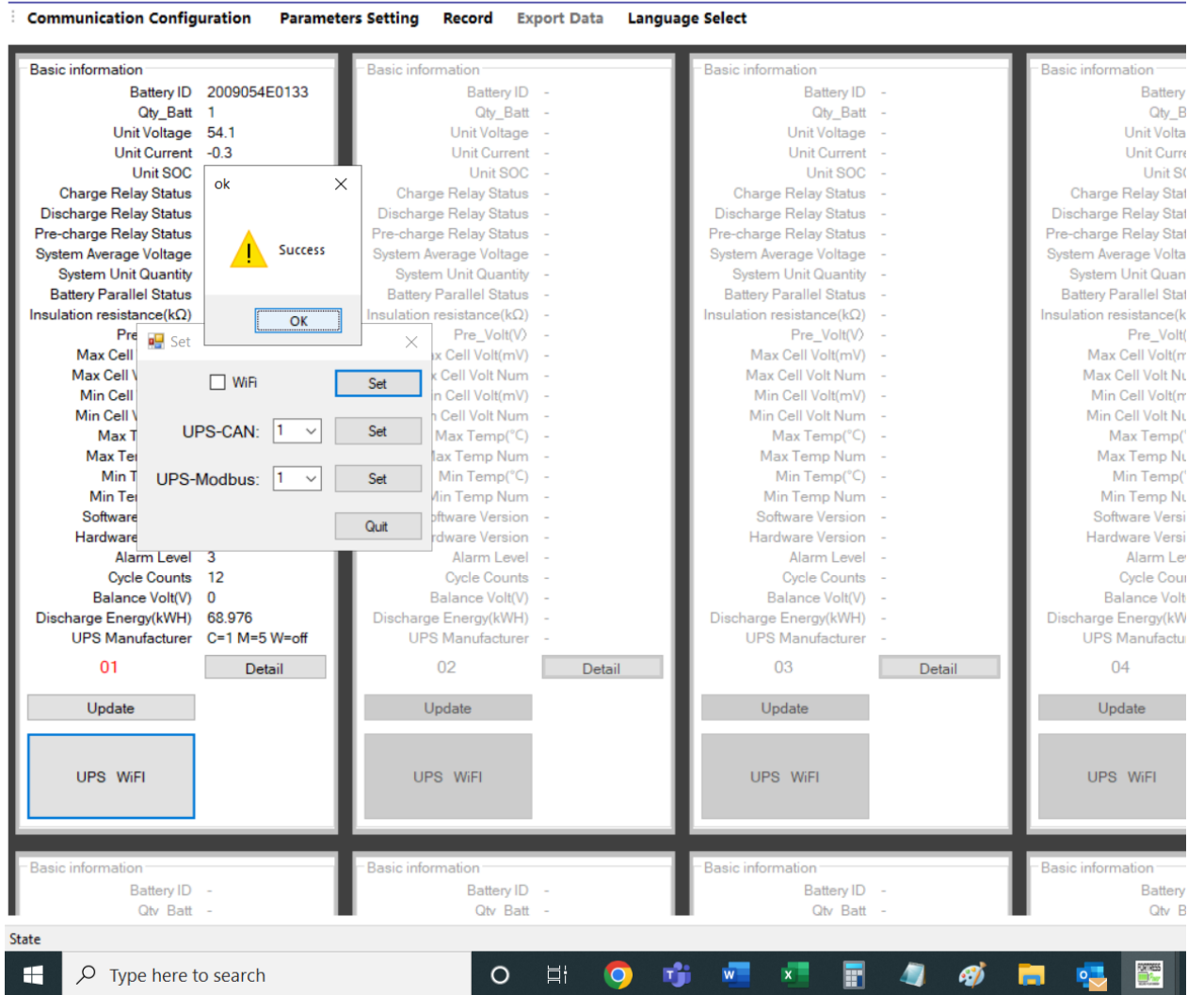
KR00-BMS-2020\_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

Basic information	Basic information	Basic information	Basic information
Battery ID 2009054E0133	Battery ID -	Battery ID -	Battery
Qty_Batt 1	Qty_Batt -	Qty_Batt -	Qty_B
Unit Voltage 54.1	Unit Voltage -	Unit Voltage -	Unit Volta
Unit Current -0.3	Unit Current -	Unit Current -	Unit Curr
Unit SOC	Unit SOC -	Unit SOC -	Unit St
Charge Relay Status	Charge Relay Status -	Charge Relay Status -	Charge Relay Stat
Discharge Relay Status	Discharge Relay Status -	Discharge Relay Status -	Discharge Relay Stat
Pre-charge Relay Status	Pre-charge Relay Status -	Pre-charge Relay Status -	Pre-charge Relay Stat
System Average Voltage	System Average Voltage -	System Average Voltage -	System Average Volta
System Unit Quantity	System Unit Quantity -	System Unit Quantity -	System Unit Quan
Battery Parallel Status	Battery Parallel Status -	Battery Parallel Status -	Battery Parallel Stat
Insulation resistance(kΩ)	Insulation resistance(kΩ) -	Insulation resistance(kΩ) -	Insulation resistance(k
Pre_Volt(V)	Pre_Volt(V) -	Pre_Volt(V) -	Pre_Volt(
Max Cell Volt(mV)	Max Cell Volt(mV) -	Max Cell Volt(mV) -	Max Cell Volt(r
Min Cell Volt(mV)	Min Cell Volt(mV) -	Min Cell Volt(mV) -	Min Cell Volt(N
Max Temp(°C)	Max Temp(°C) -	Max Temp(°C) -	Max Temp(
Min Temp(°C)	Min Temp(°C) -	Min Temp(°C) -	Min Temp(
Software Version	Software Version -	Software Version -	Software Versi
Hardware Version	Hardware Version -	Hardware Version -	Hardware Versi
Alarm Level 3	Alarm Level -	Alarm Level -	Alarm Le
Cycle Counts 12	Cycle Counts -	Cycle Counts -	Cycle Cour
Balance Volt(V) 0	Balance Volt(V) -	Balance Volt(V) -	Balance Volt
Discharge Energy(kWH) 68.976	Discharge Energy(kWH) -	Discharge Energy(kWH) -	Discharge Energy(kW
UPS Manufacturer C=1 M=5 W=off	UPS Manufacturer -	UPS Manufacturer -	UPS Manufactu
01	02	03	04
Update	Update	Update	Update
UPS WiFi	UPS WiFi	UPS WiFi	UPS WiFi

State

Type here to search



7. Now, the check-mark on "WiFi" is removed, but more importantly, the Wi-Fi is turned off.

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Communication Configuration Parameters Setting Record Export Data Language Select

Basic information	Basic information	Basic information	Basic information
Battery ID 2009054E0133	Battery ID -	Battery ID -	Battery ID -
Qty_Batt 1	Qty_Batt -	Qty_Batt -	Qty_E
Unit Voltage 54.1	Unit Voltage -	Unit Voltage -	Unit Volta
Unit Current -0.3	Unit Current -	Unit Current -	Unit Curr
Unit SOC 100	Unit SOC -	Unit SOC -	Unit Si
Charge Relay Status Make	Charge Relay Status -	Charge Relay Status -	Charge Relay Sta
Discharge Relay Status Make	Discharge Relay Status -	Discharge Relay Status -	Discharge Relay Sta
Pre-charge Relay Status Break	Pre-charge Relay Status -	Pre-charge Relay Status -	Pre-charge Relay Sta
System Average Voltage 541	System Average Voltage -	System Average Voltage -	System Average Volta
System Unit Quantity 1	System Unit Quantity -	System Unit Quantity -	System Unit Quan
Battery Parallel Status Paralleled	Battery Parallel Status -	Battery Parallel Status -	Battery Parallel Sta
Insulation resistance(kΩ) 65535	Insulation resistance(kΩ) -	Insulation resistance(kΩ) -	Insulation resistance(k
Pre_Volt(V) -	Pre_Volt(V) -	Pre_Volt(V) -	Pre_Volt
Max Cell Volt(mV) -	Max Cell Volt(mV) -	Max Cell Volt(mV) -	Max Cell Volt(n
Min Cell Volt(mV) -	Min Cell Volt(mV) -	Min Cell Volt(mV) -	Max Cell Volt Ni
Max Temp(°C) -	Max Temp(°C) -	Max Temp(°C) -	Min Cell Volt Ni
Max Temp Num -	Max Temp Num -	Max Temp Num -	Max Temp(
Min Temp(°C) -	Min Temp(°C) -	Min Temp(°C) -	Max Temp Ni
Min Temp Num -	Min Temp Num -	Min Temp Num -	Min Temp(
Software Version -	Software Version -	Software Version -	Min Temp Ni
Hardware Version -	Hardware Version -	Hardware Version -	Software Versi
Alarm Level 3	Alarm Level -	Alarm Level -	Hardware Versi
Cycle Counts 12	Cycle Counts -	Cycle Counts -	Alarm Le
Balance Volt(V) 0	Balance Volt(V) -	Balance Volt(V) -	Cycle Cou
Discharge Energy(kWH) 68.976	Discharge Energy(kWH) -	Discharge Energy(kWH) -	Balance Volt
UPS Manufacturer C=1 M= W=off	UPS Manufacturer -	UPS Manufacturer -	Discharge Energy(kW
UPS Manufacturer	UPS Manufacturer	UPS Manufacturer	UPS Manufactu
01	02	03	04
Update	Update	Update	Update
UPS WiFi	UPS WiFi	UPS WiFi	UPS WiFi

State

Type here to search