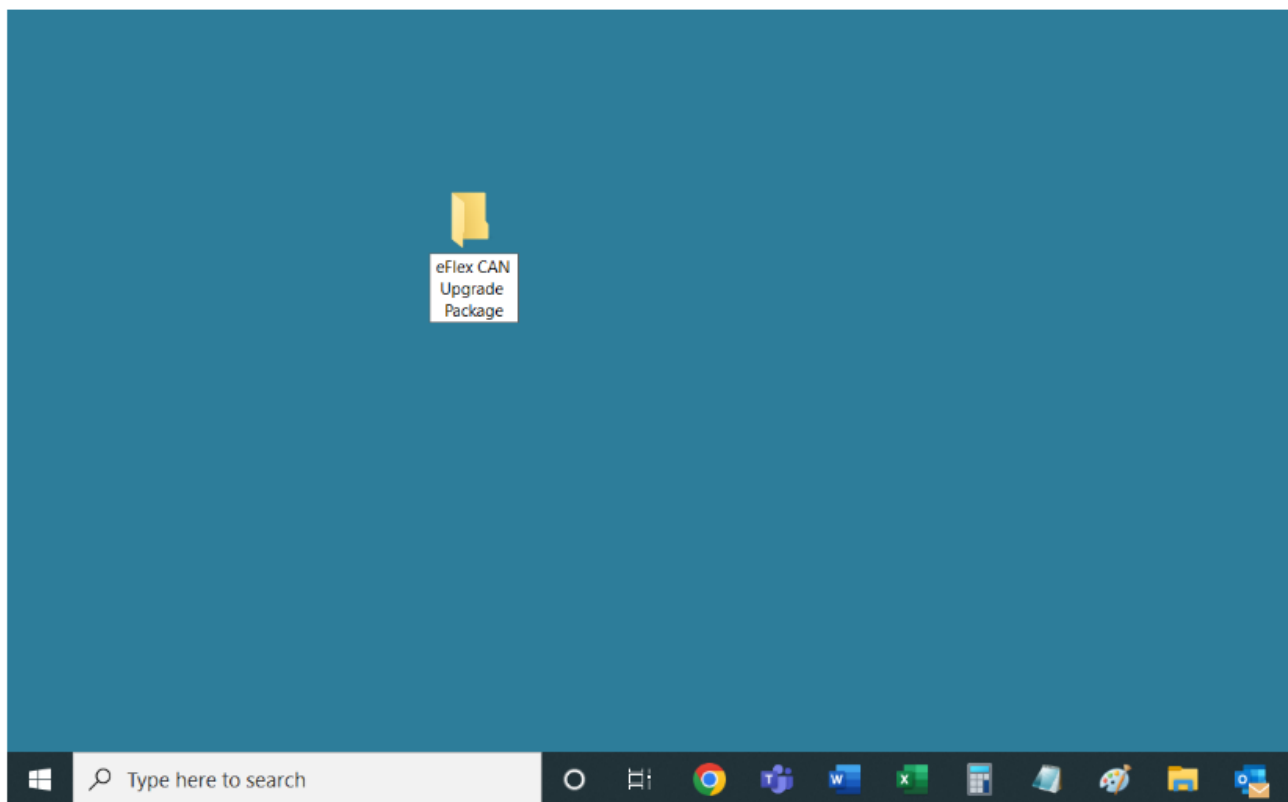
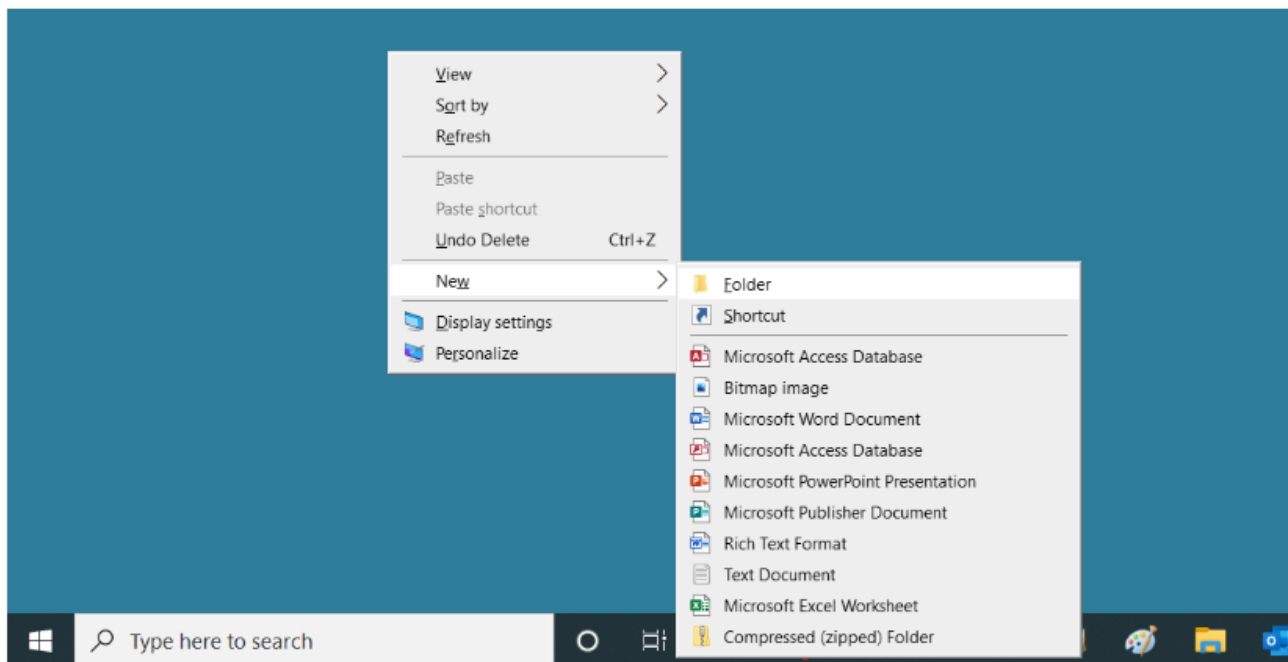


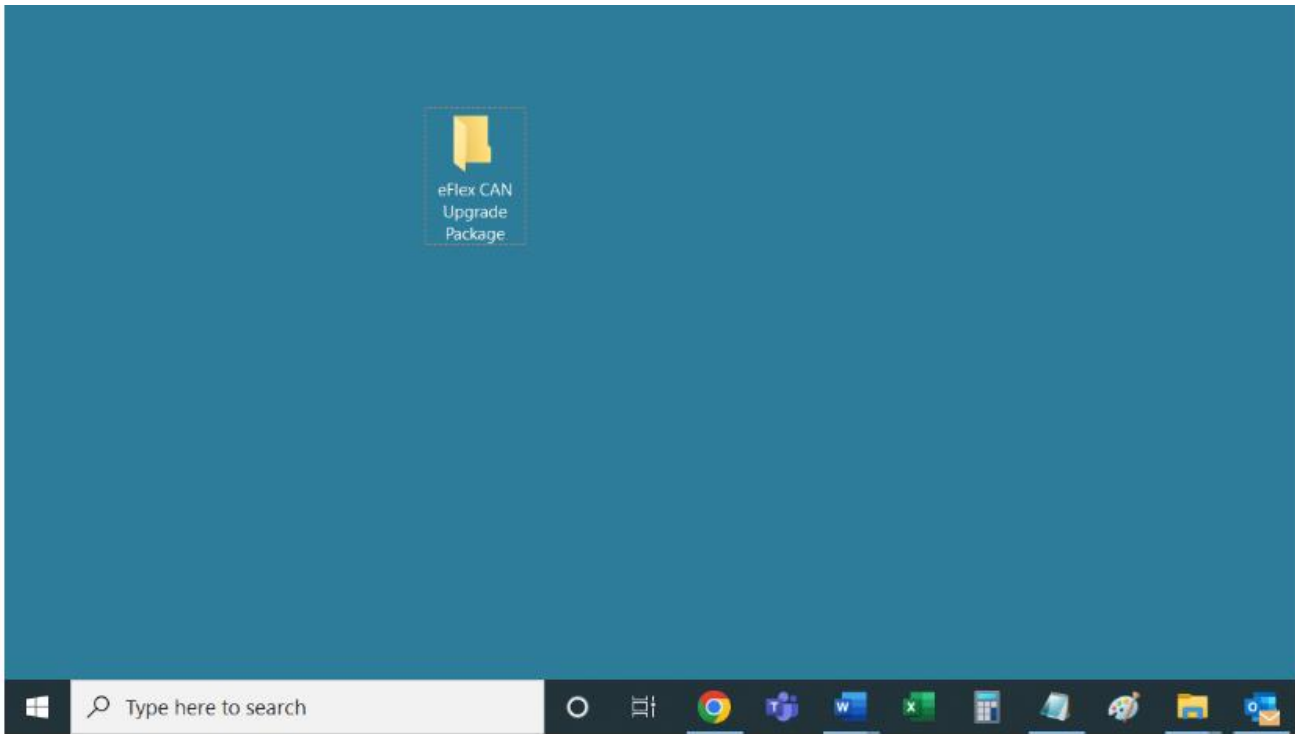
eVault Max Firmware Update Instructions

(Rev.2)

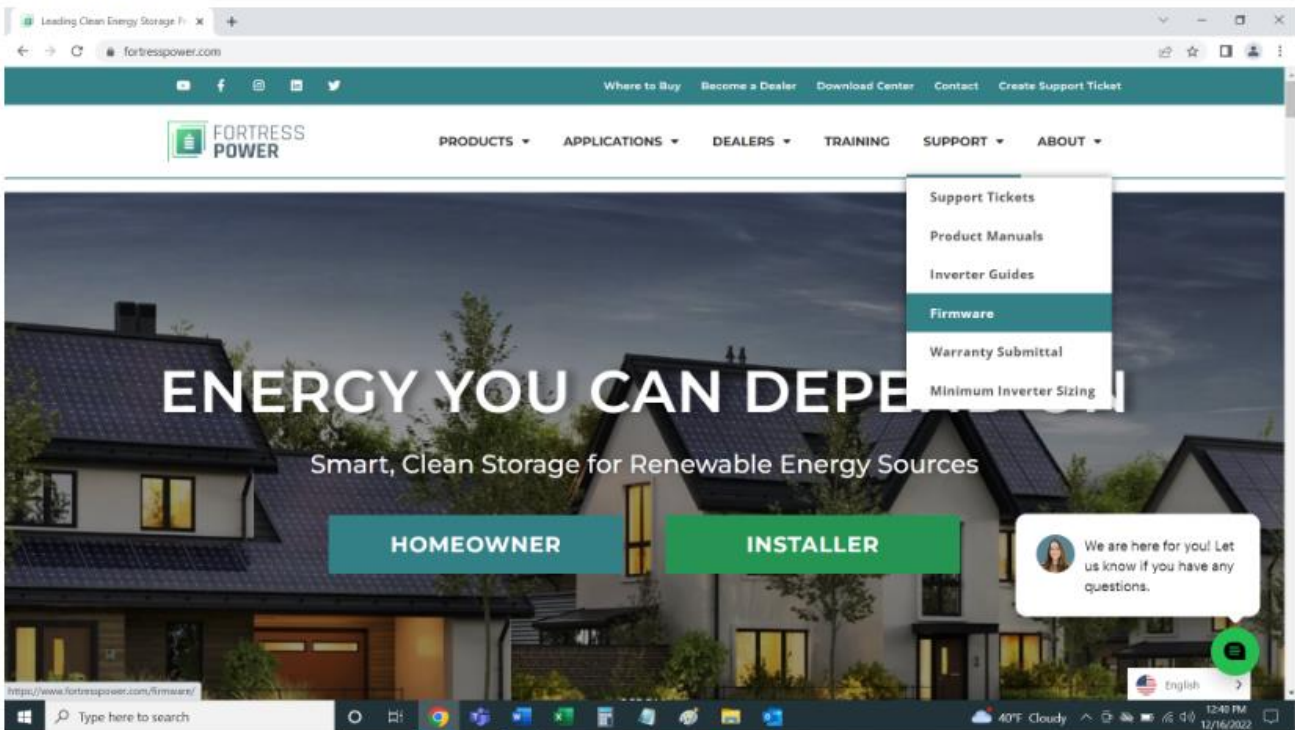
Obtaining and Organizing the Required Files

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!".

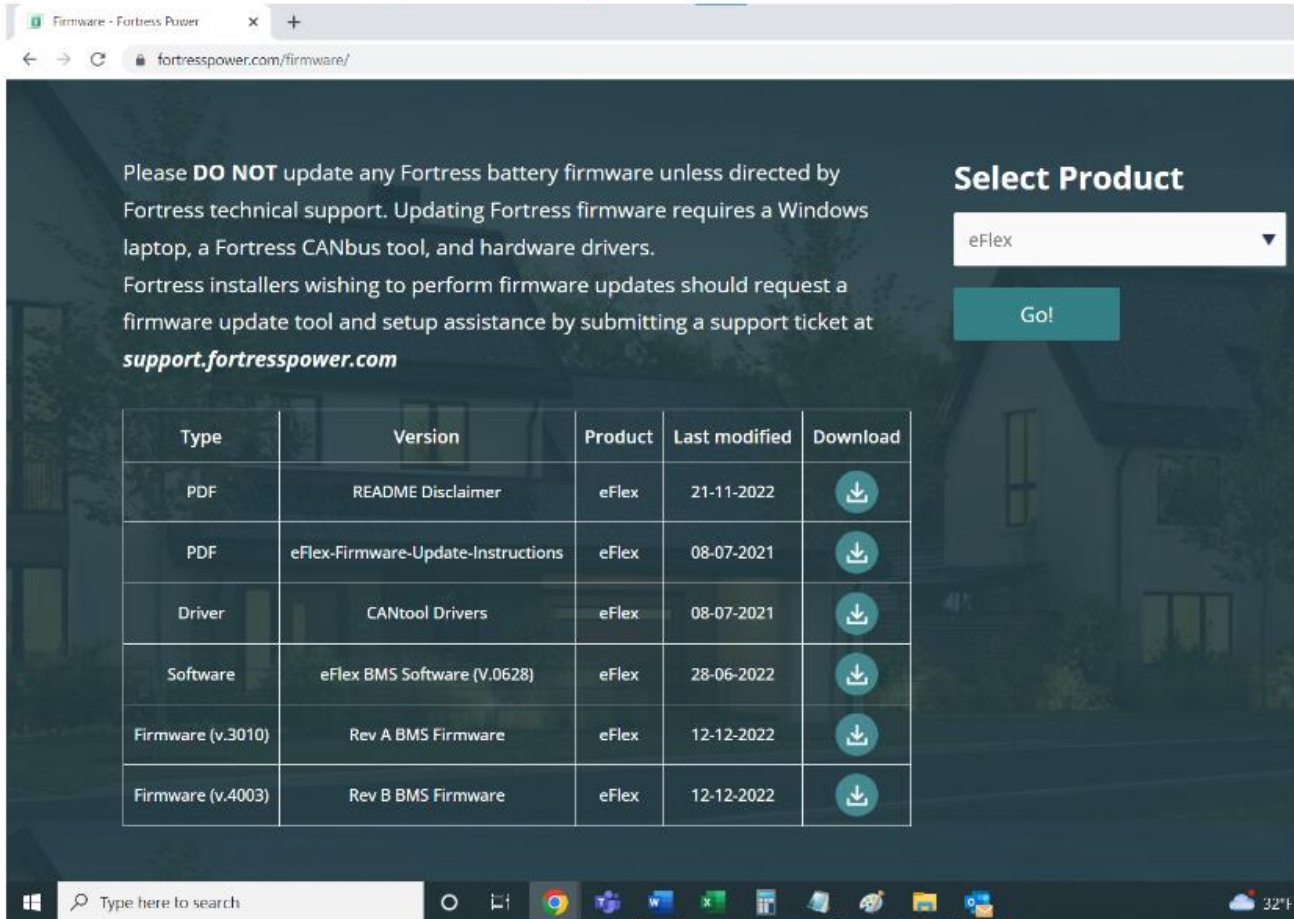
The screenshot shows a web browser window displaying the Fortress Power website. The browser's address bar shows the URL `fortresspower.com/firmware/`. The website's navigation bar includes links for "Where to Buy", "Become a Dealer", "Download Center", "Contact", and "Create Support Ticket". Below this, the main navigation menu lists "PRODUCTS", "APPLICATIONS", "DEALERS", "TRAINING", "SUPPORT", and "ABOUT".

The main content area features a dark background with a house silhouette. On the left, a warning message reads: "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".

On the right, a "Select Product" section contains a dropdown menu currently showing "eVault Max" and a teal "Go!" button. A chatbot bubble is visible on the right side, stating: "We are here for you! Let us know if you have any questions." The bottom of the page shows a Windows taskbar with the search bar, taskbar icons, and system tray information including "40°F Cloudy" and the date "11/16/2022".

4. Below, a table will appear. You need to download software, both firmwares, 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.









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

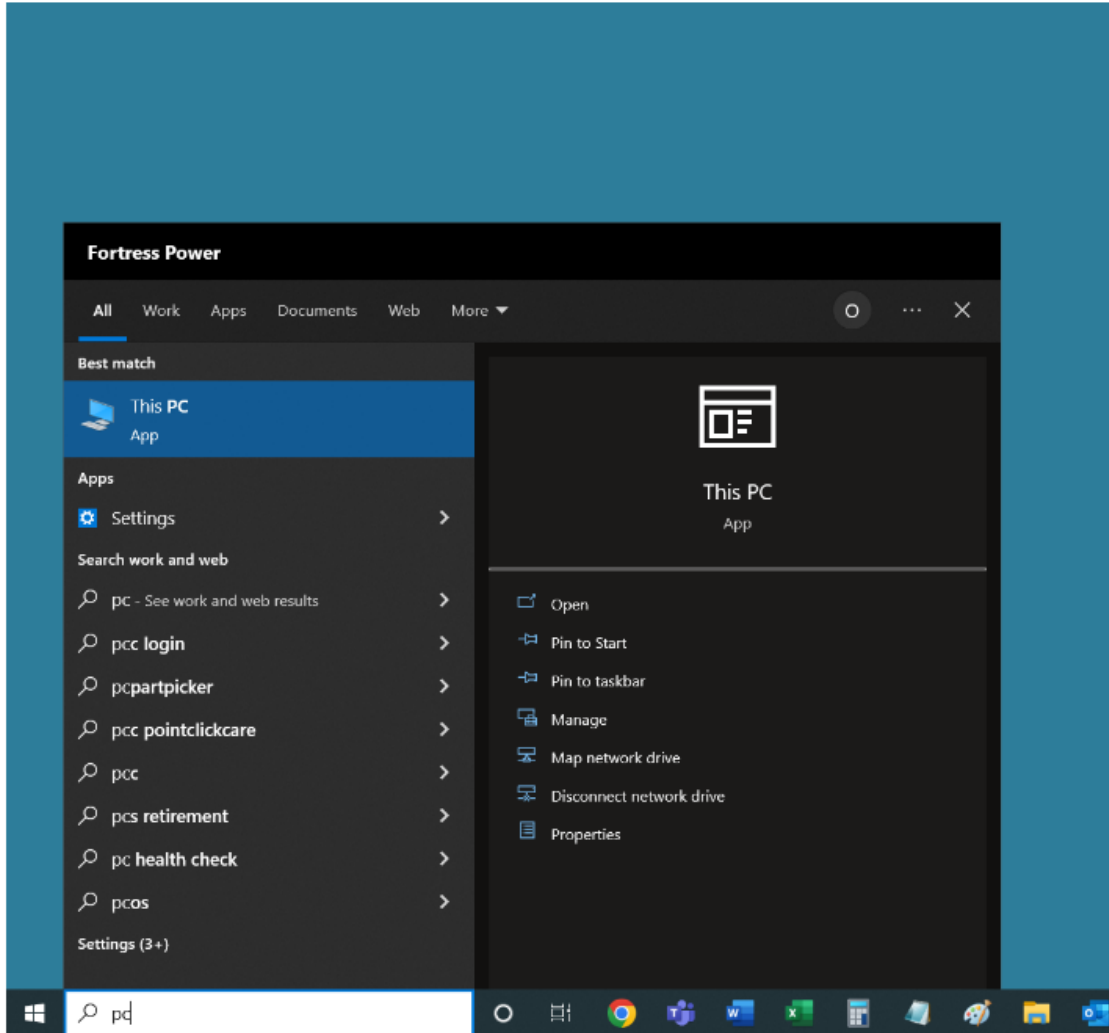
Select Product

eFlex

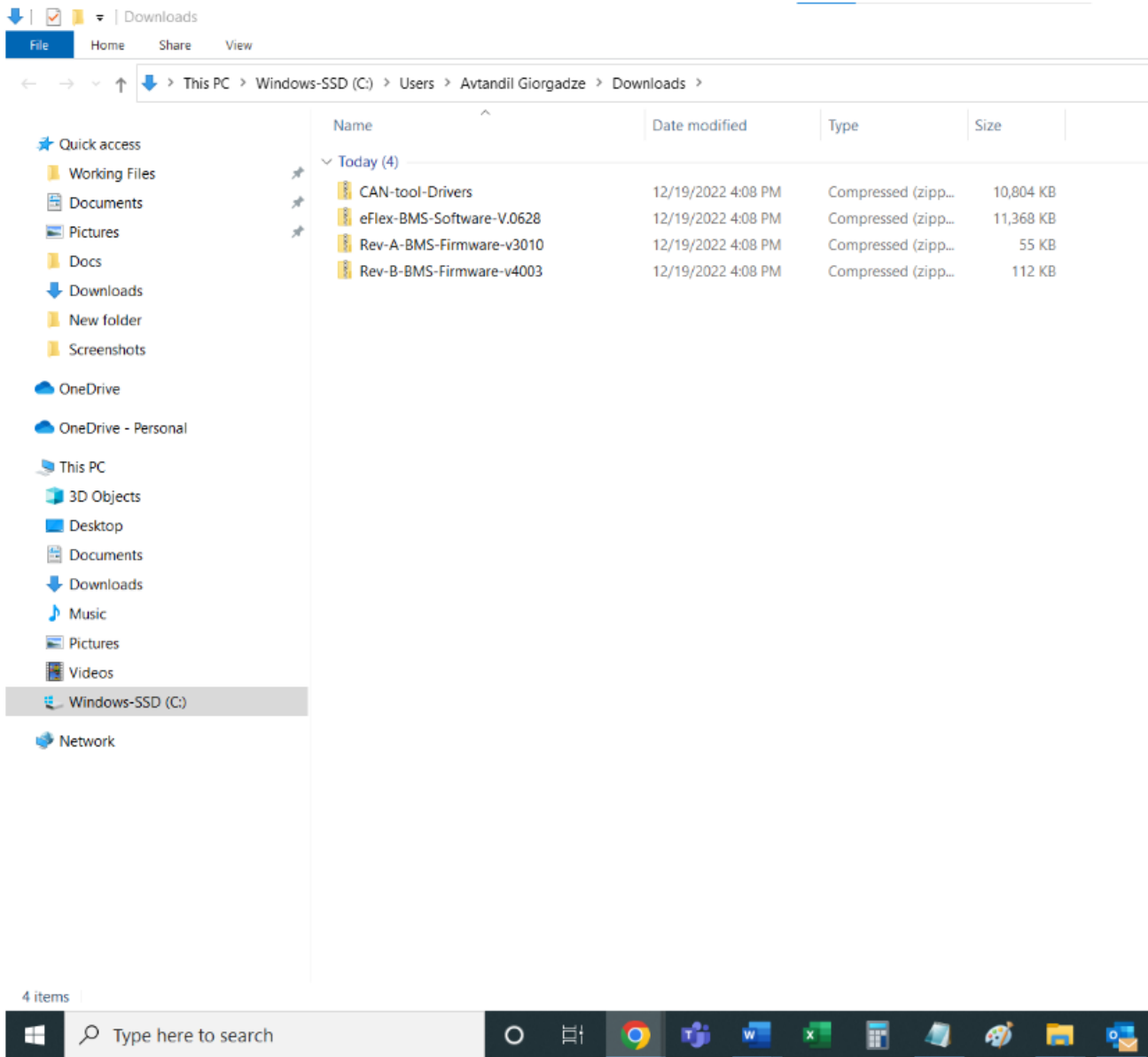
Go!

Type	Version	Product	Last modified	Download
PDF	README Disclaimer	eFlex	21-11-2022	
PDF	eFlex-Firmware-Update-Instructions	eFlex	08-07-2021	
Driver	CANtool Drivers	eFlex	08-07-2021	
Software	eFlex BMS Software (V.0628)	eFlex	28-06-2022	
Firmware (v.3010)	Rev A BMS Firmware	eFlex	12-12-2022	
Firmware (v.4003)	Rev B BMS Firmware	eFlex	12-12-2022	

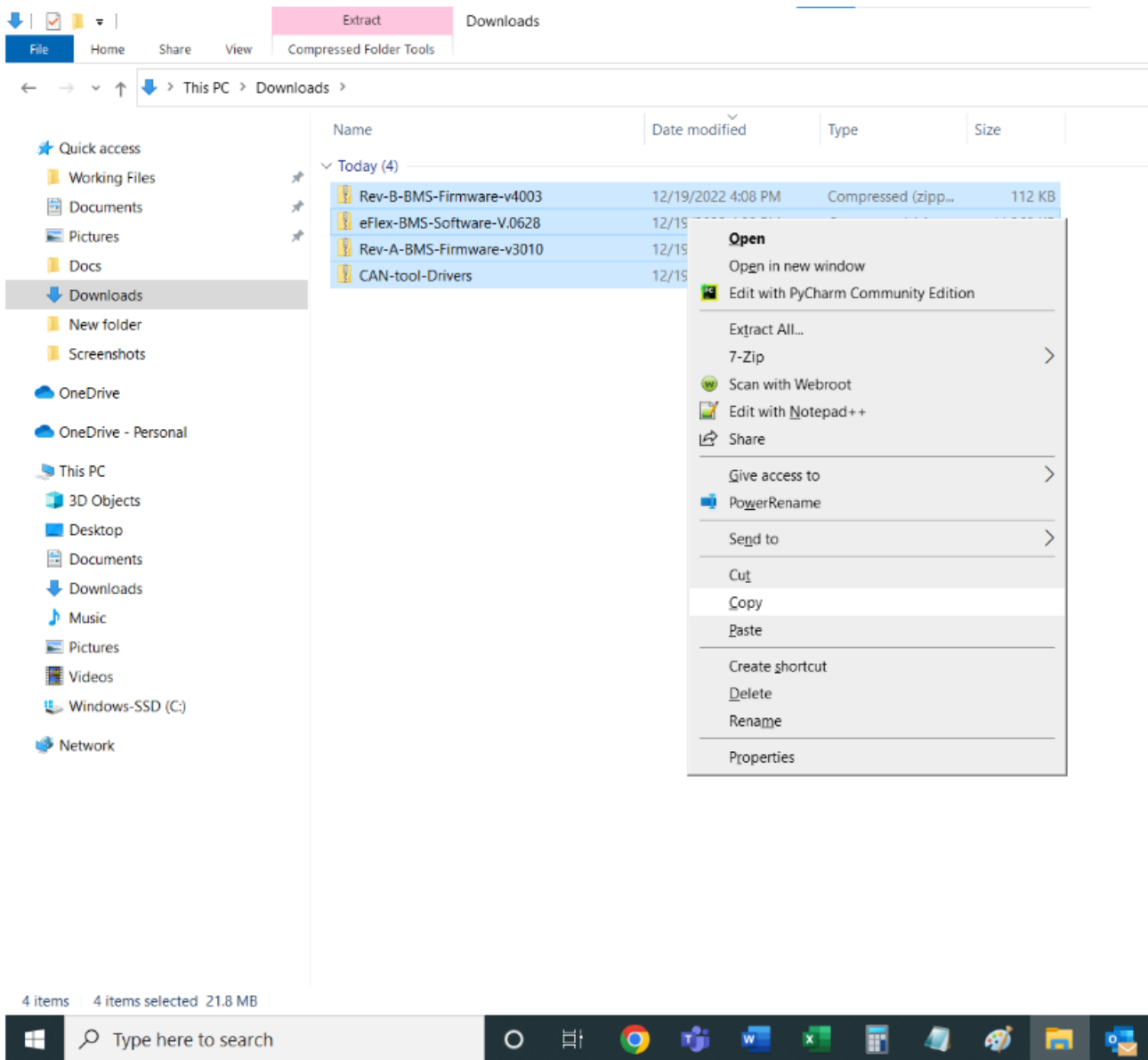
- Once the downloads are completed, navigate to the "Downloads" folder (or wherever you saved the files from the website). Close the browser, click on the start (looks like a Windows icon) and type in "pc". Then, click on "This PC".



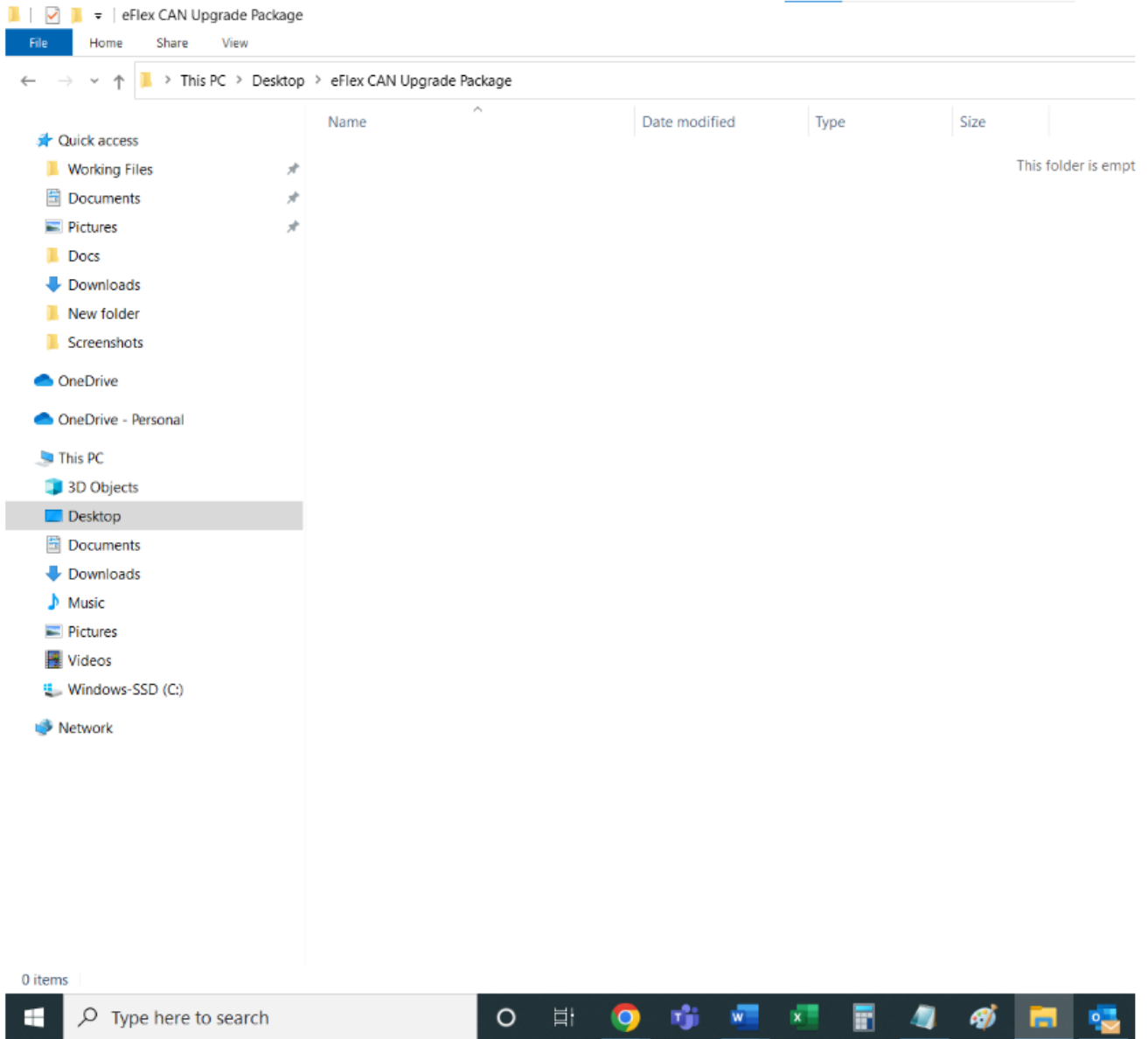
6. Then, go to the "Downloads" folder (or wherever you saved the files from the website) where you'll see the downloaded folder.



7. Select these four 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.



< > > This PC > Desktop > eFlex CAN Upgrade Package

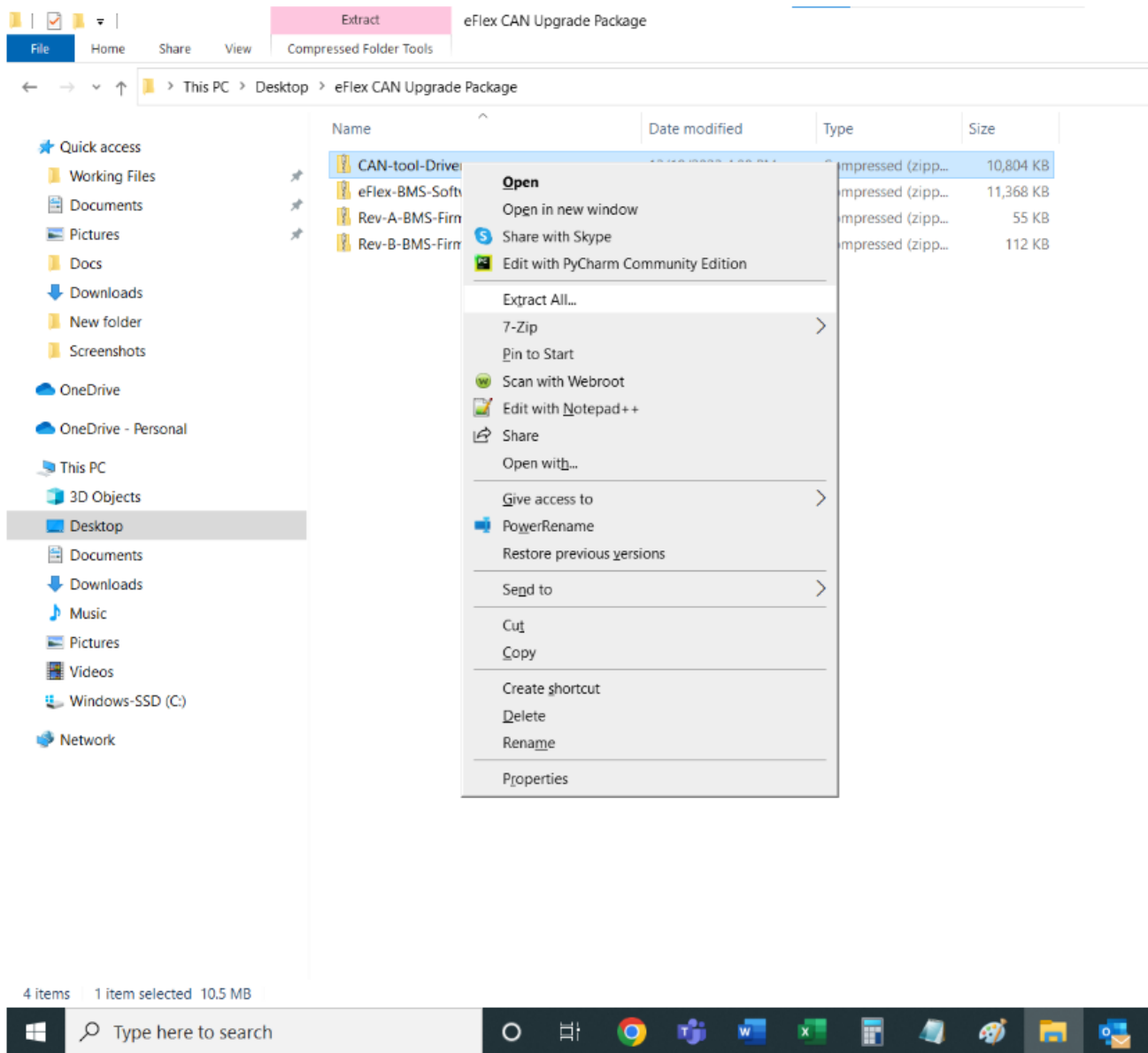
Quick access

- 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

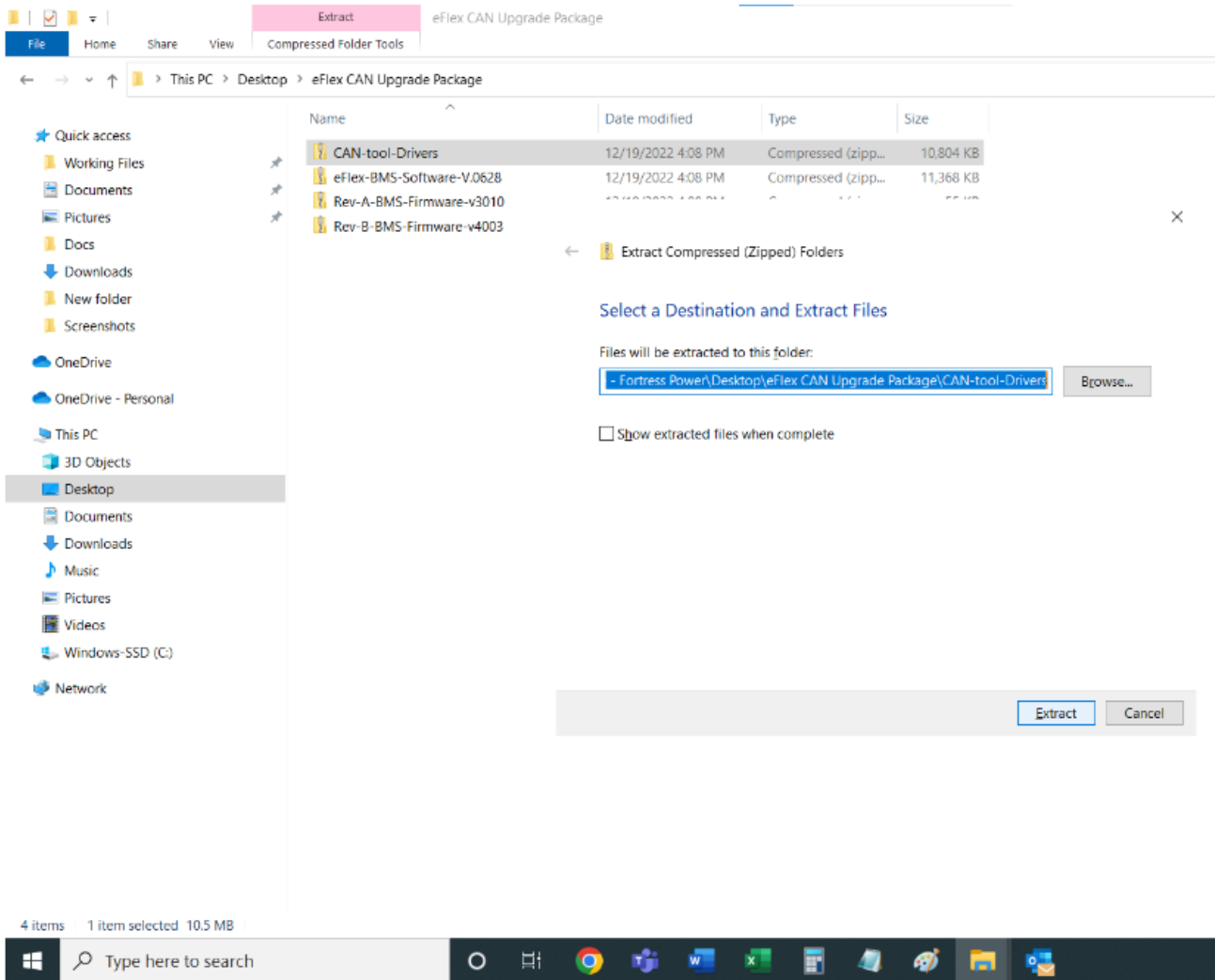
Name	Date modified	Type	Size
CAN-tool-Drivers	12/19/2022 4:08 PM	Compressed (zipp...	10,804 KB
eFlex-BMS-Software-V.0628	12/19/2022 4:08 PM	Compressed (zipp...	11,368 KB
Rev-A-BMS-Firmware-v3010	12/19/2022 4:08 PM	Compressed (zipp...	55 KB
Rev-B-BMS-Firmware-v4003	12/19/2022 4:08 PM	Compressed (zipp...	112 KB

4 items 4 items selected 21.8 MB

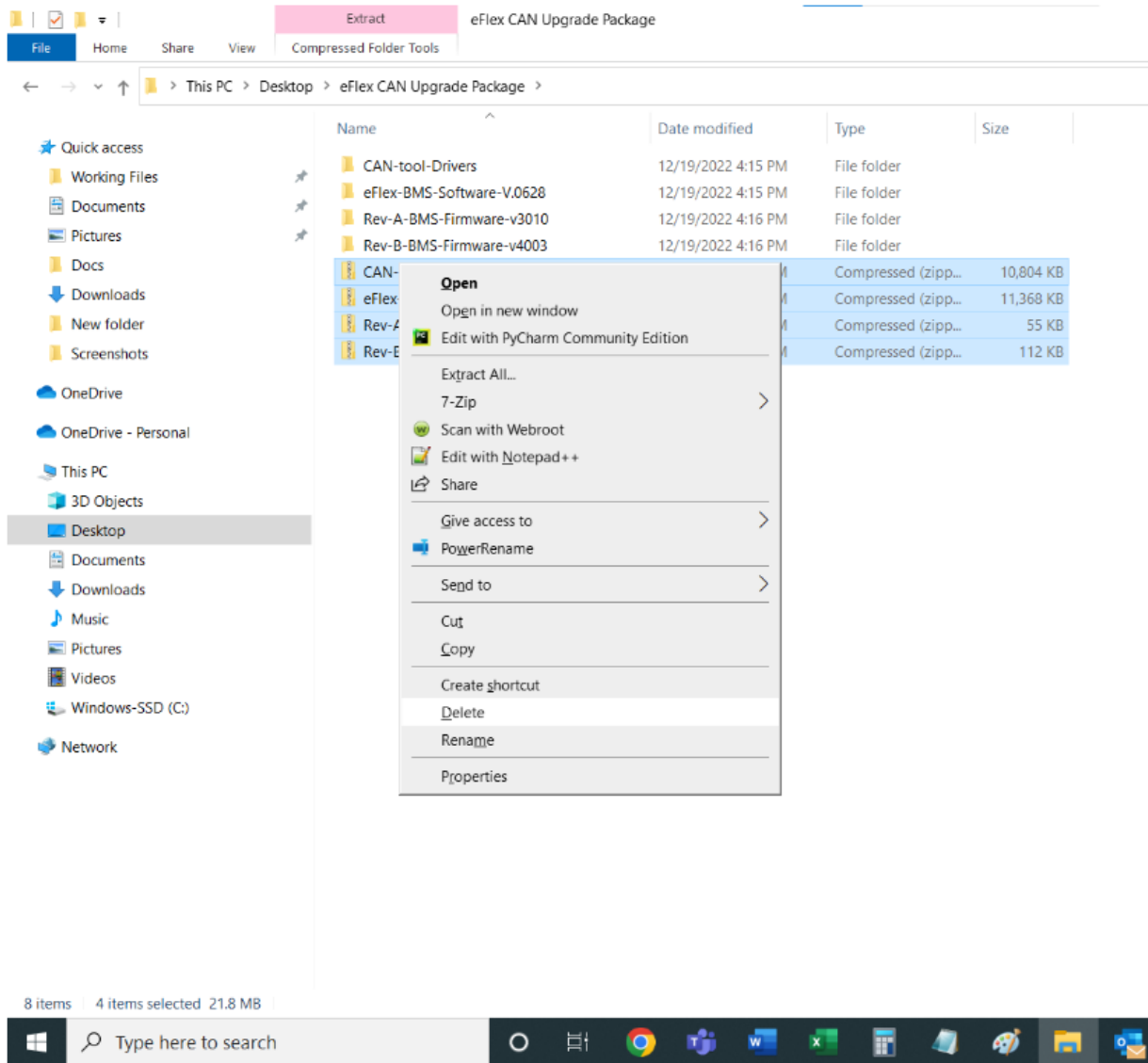
9. Click somewhere in the folder to remove the blue highlight from the files. Then, right-click on one of the files and from the dropdown click on "Extract All..".



10. Afterwards, click on "Extract".



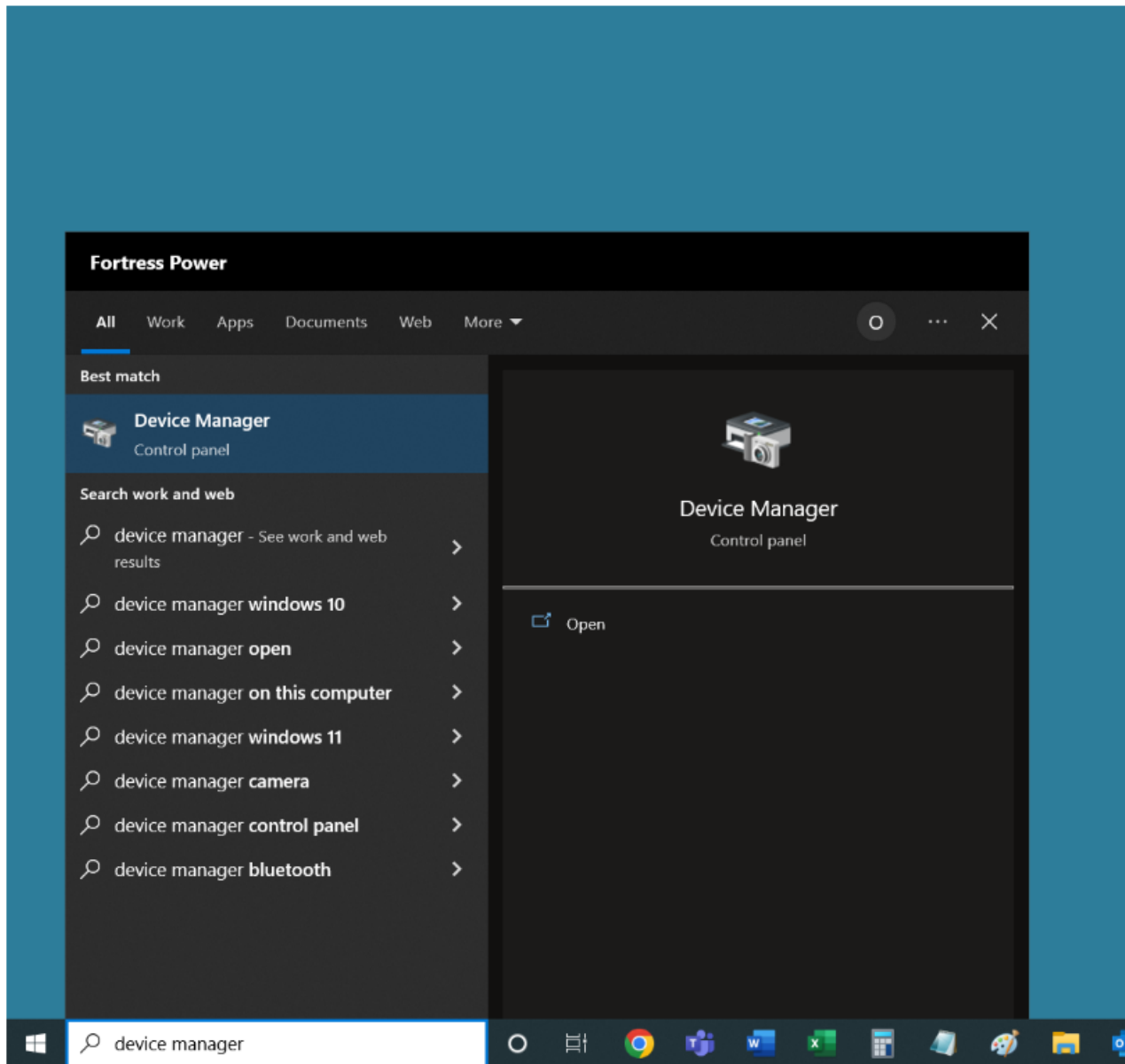
11. Repeat the above two steps (10 and 11) for the three other downloaded files (one at a time). Once all three downloaded files are "extracted", delete the downloaded files so the confusions can be avoided.



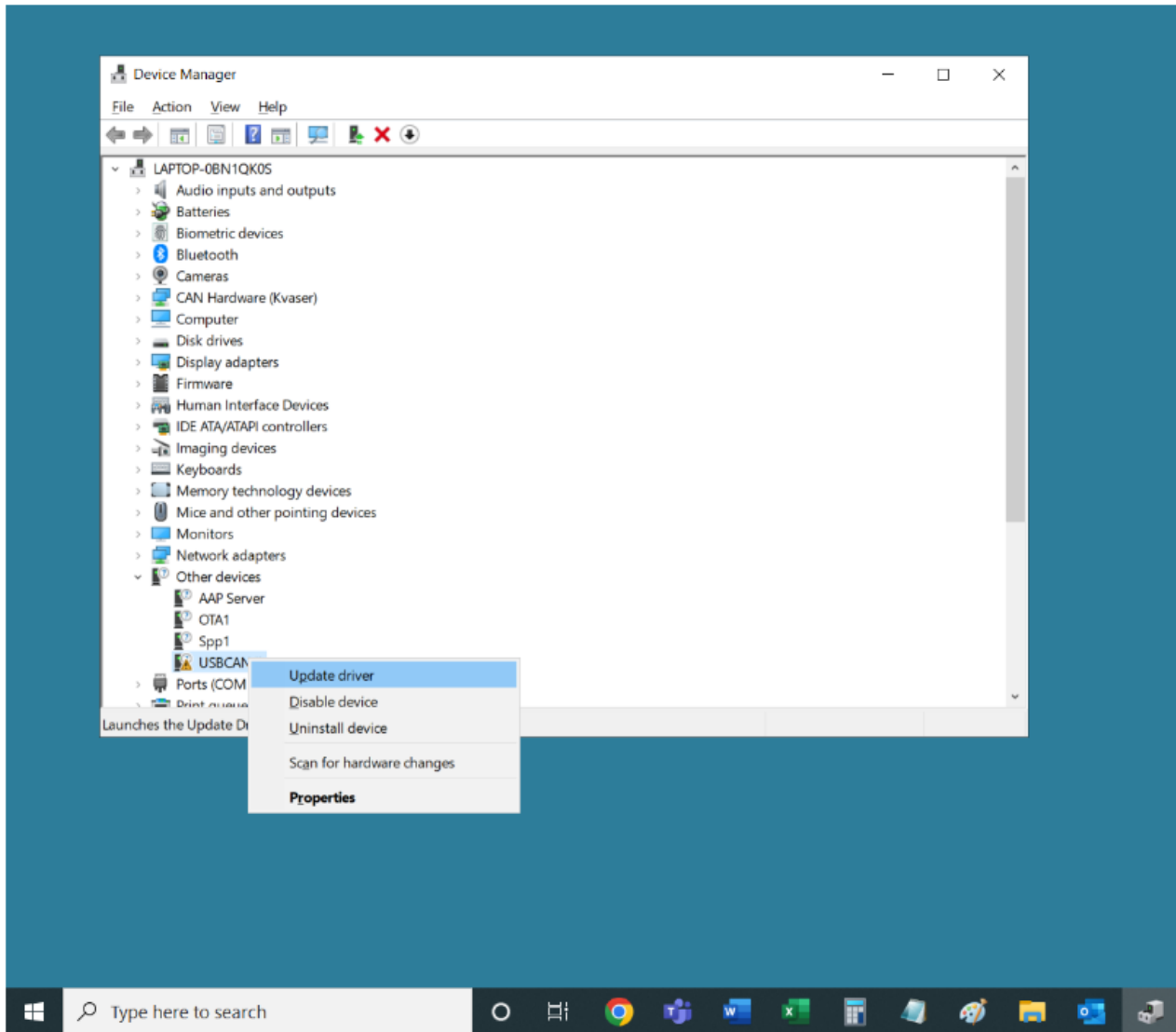
Now the drivers for the CAN tool (USBCAN) need to be installed

Installing the Drivers for the CANtool (USBCAN)

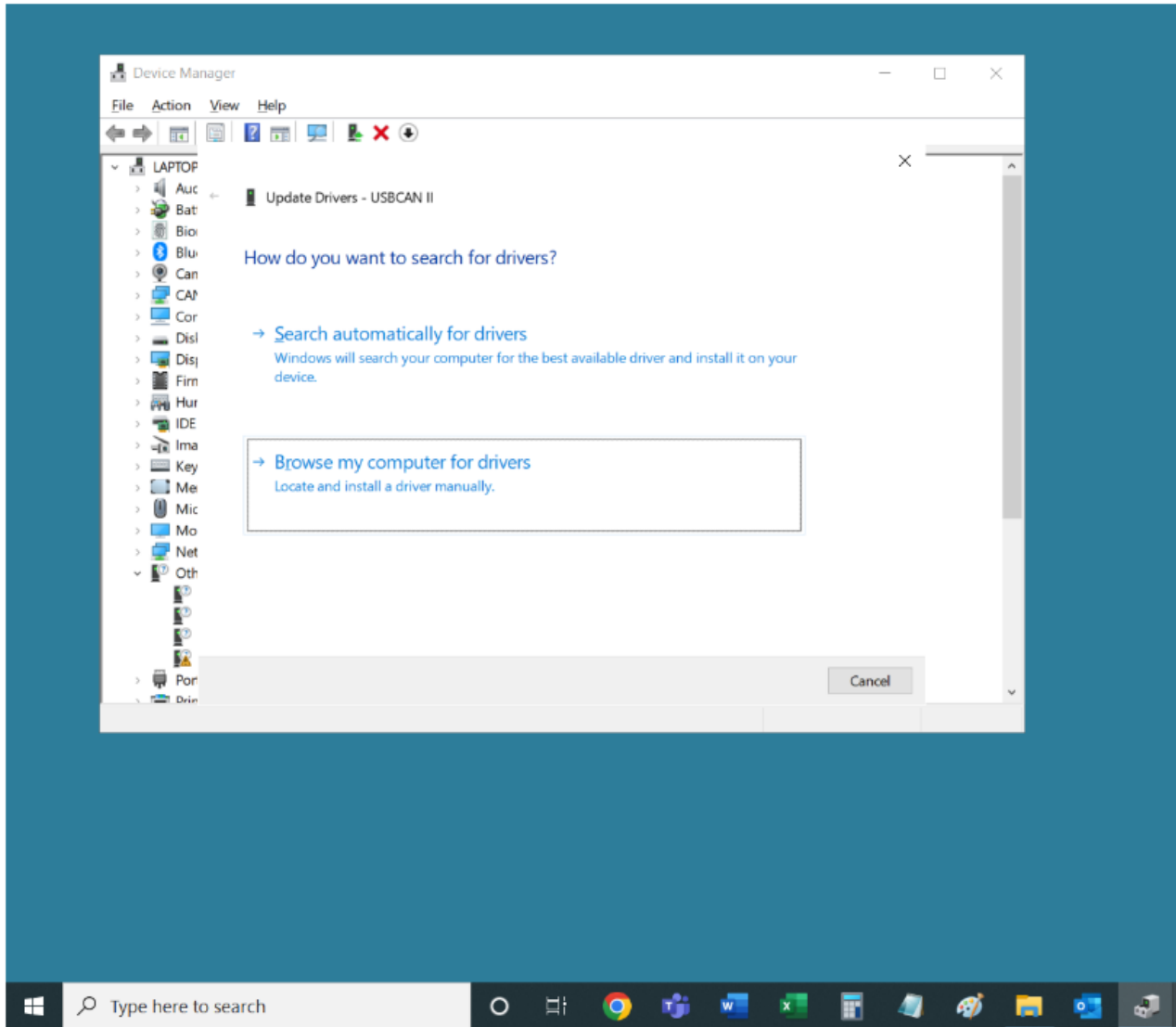
1. Connect the USB cable of the CANtool (USBCAN) to your computer and the CANtool itself.
2. Click on the "Start" icon (looks like a Windows logo) and type in "device manager". Above the search-bar, click on "Device Manager".



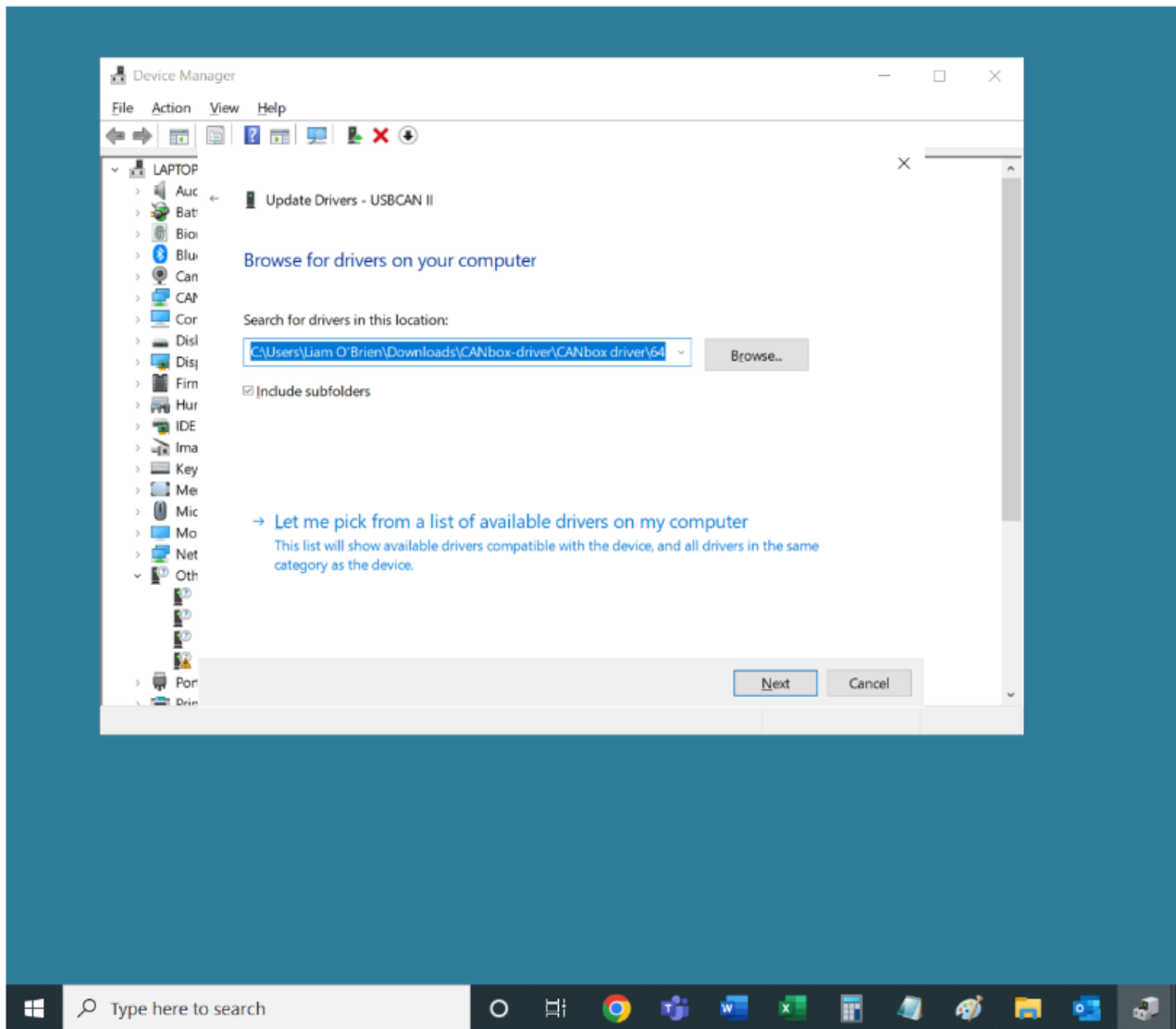
3. A window similar to the one shown below will open and one of the items of the list will be "USBCAN II" with an indent on the left. Right-click on this "USBCAN II" and from the drop-down click on "Update driver".



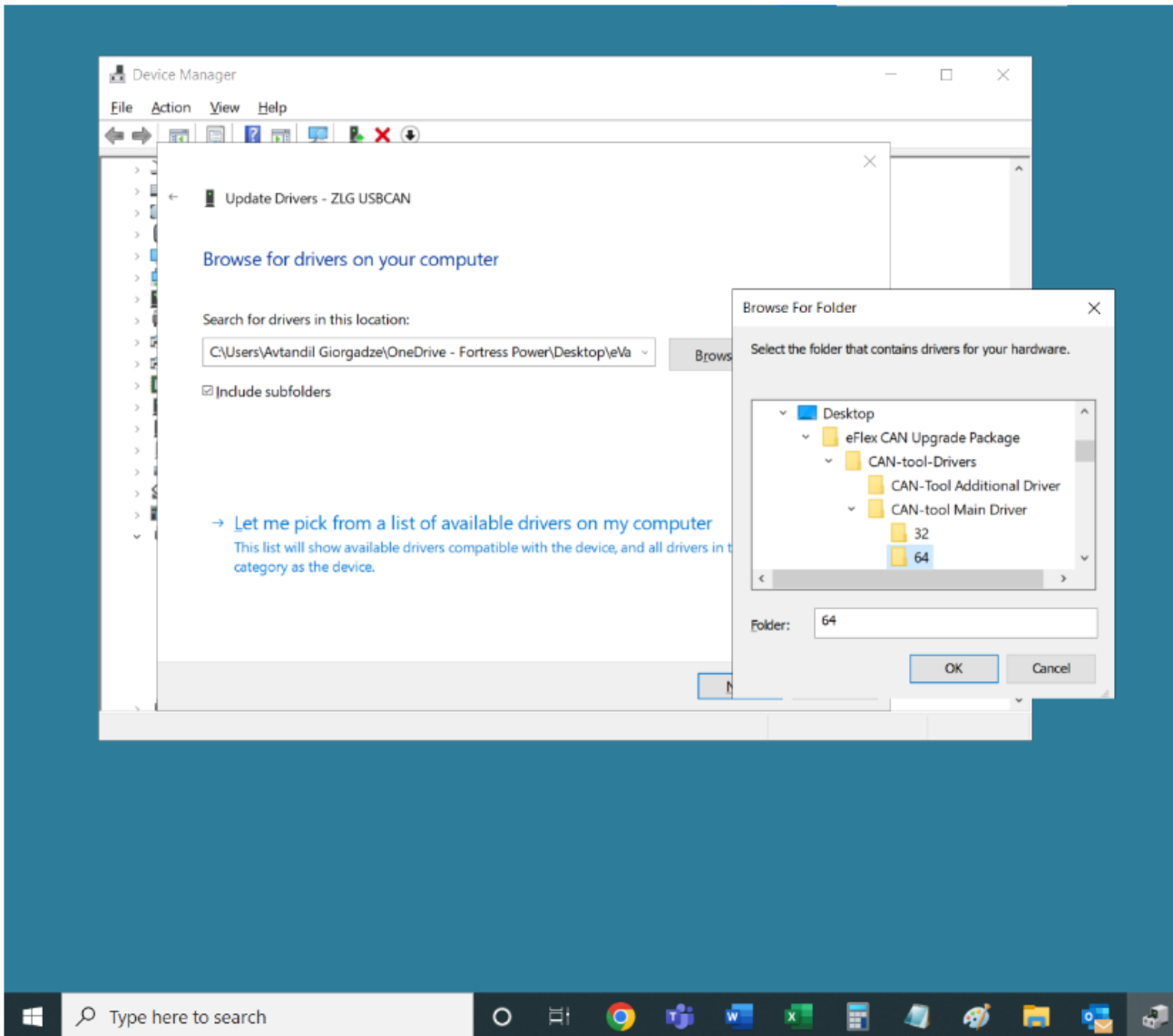
4. Next, click on "Browse my computer for drivers".



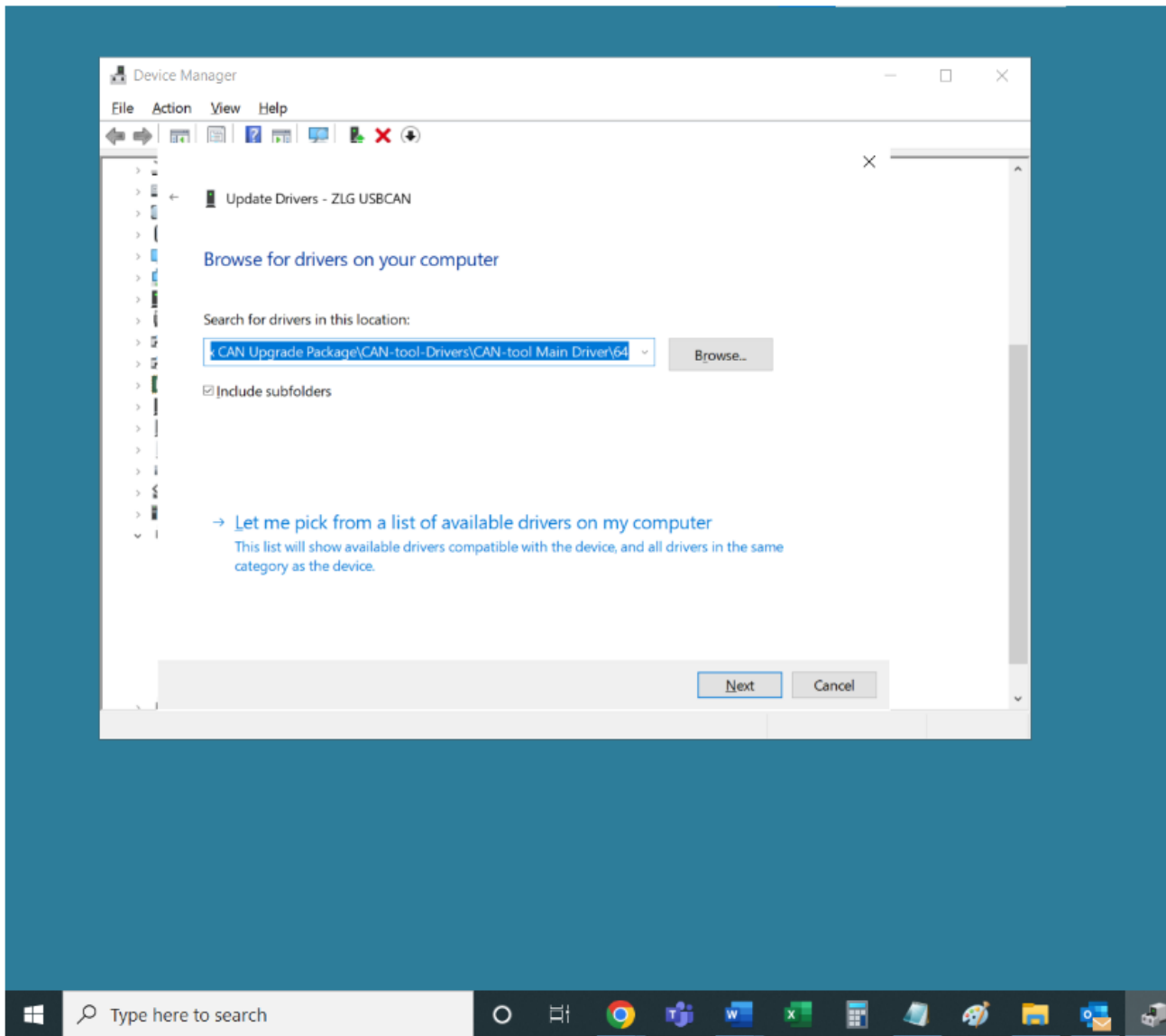
5. Now, click on "Browse..."



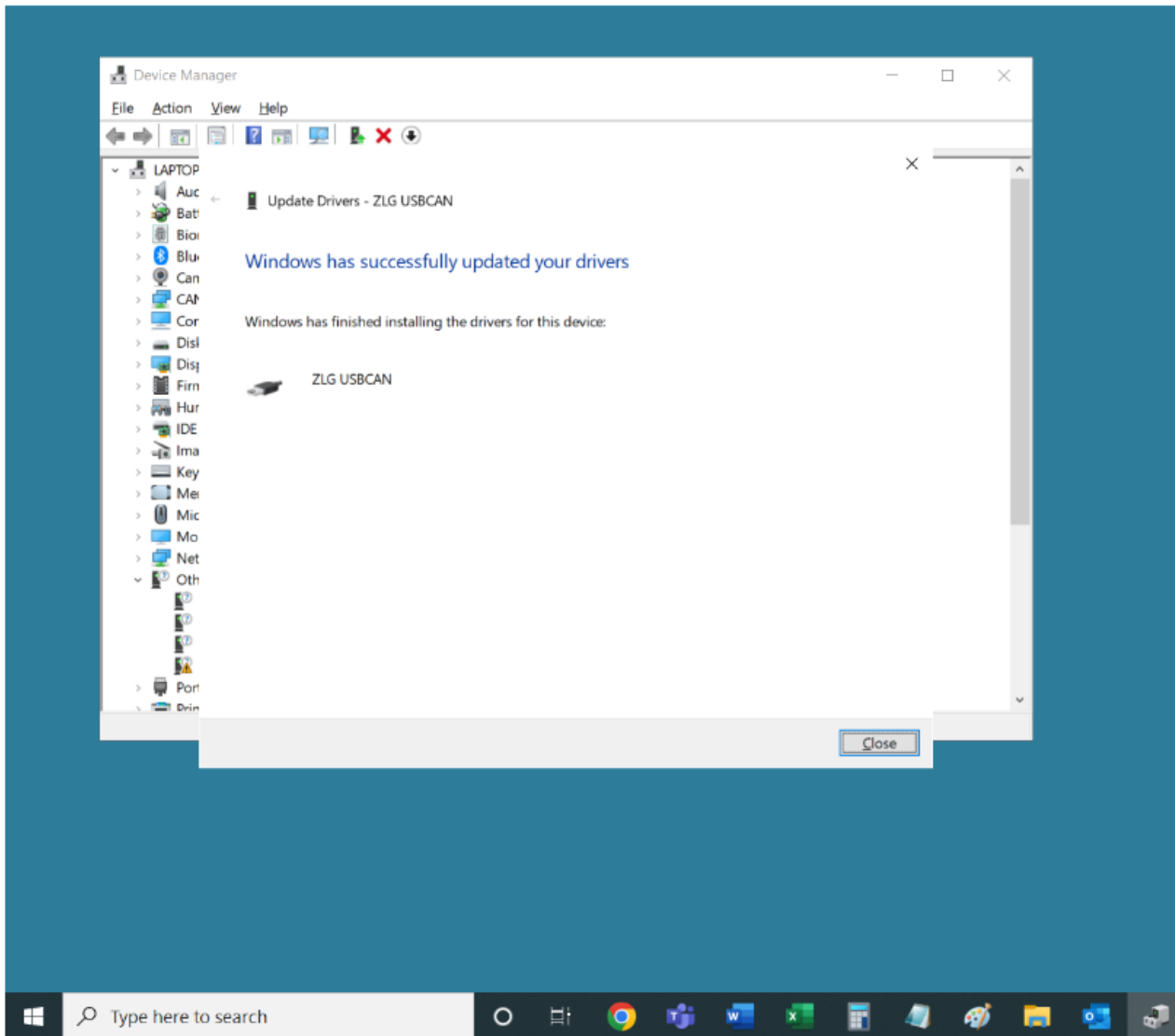
6. Then, navigate to the "eFlex CAN Upgrade Package" and from there navigate as follows: "eFlex CAN Upgrade Package" >>> "CAN-tool Drivers" >>> "CAN-tool Main Driver" >>> "64". Once "64" is selected, click "OK".



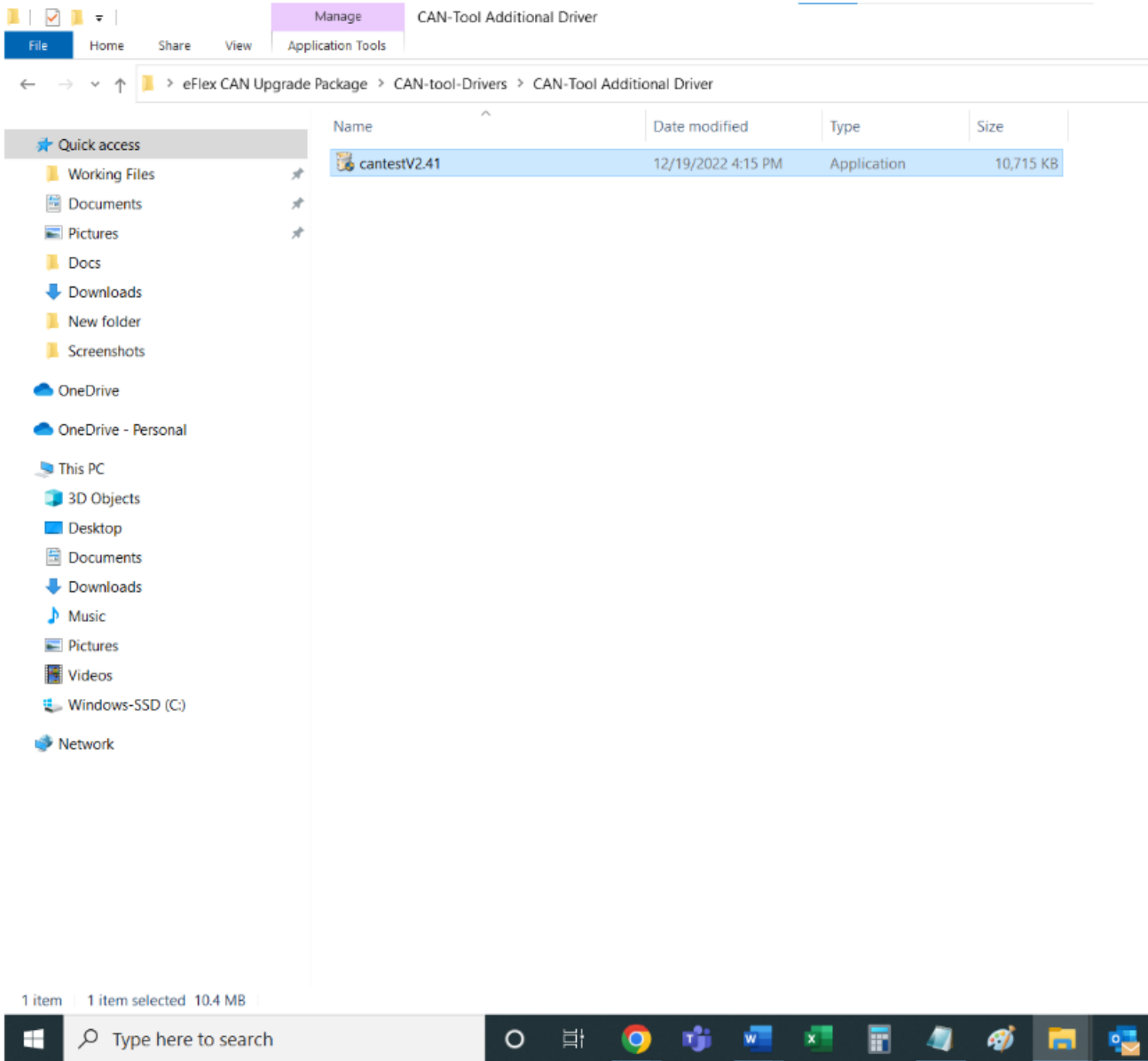
7. Then, click "Next".



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".



10. Double-click "cantestV2.41".

The screenshot shows a Windows File Explorer window with the address bar indicating the path: eflex CAN Upgrade Package > CAN-tool-Drivers > CAN-Tool Additional Driver. The file 'cantestV2.41' is selected in the main pane, with a table showing its details:

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

Overlaid on the File Explorer is the 'CANTest 2.41 Setup' dialog box. The dialog has a title bar with the text 'CANTest 2.41 Setup'. The main content area features a blue graphic on the left and the following text on the right:

Welcome to CANTest 2.41 Setup

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.

At the bottom of the dialog, there are two buttons: 'Next >' and 'Cancel'.

The Windows taskbar at the bottom shows the search bar with the text 'Type here to search' and several application icons including Chrome, Word, Excel, and File Explorer.

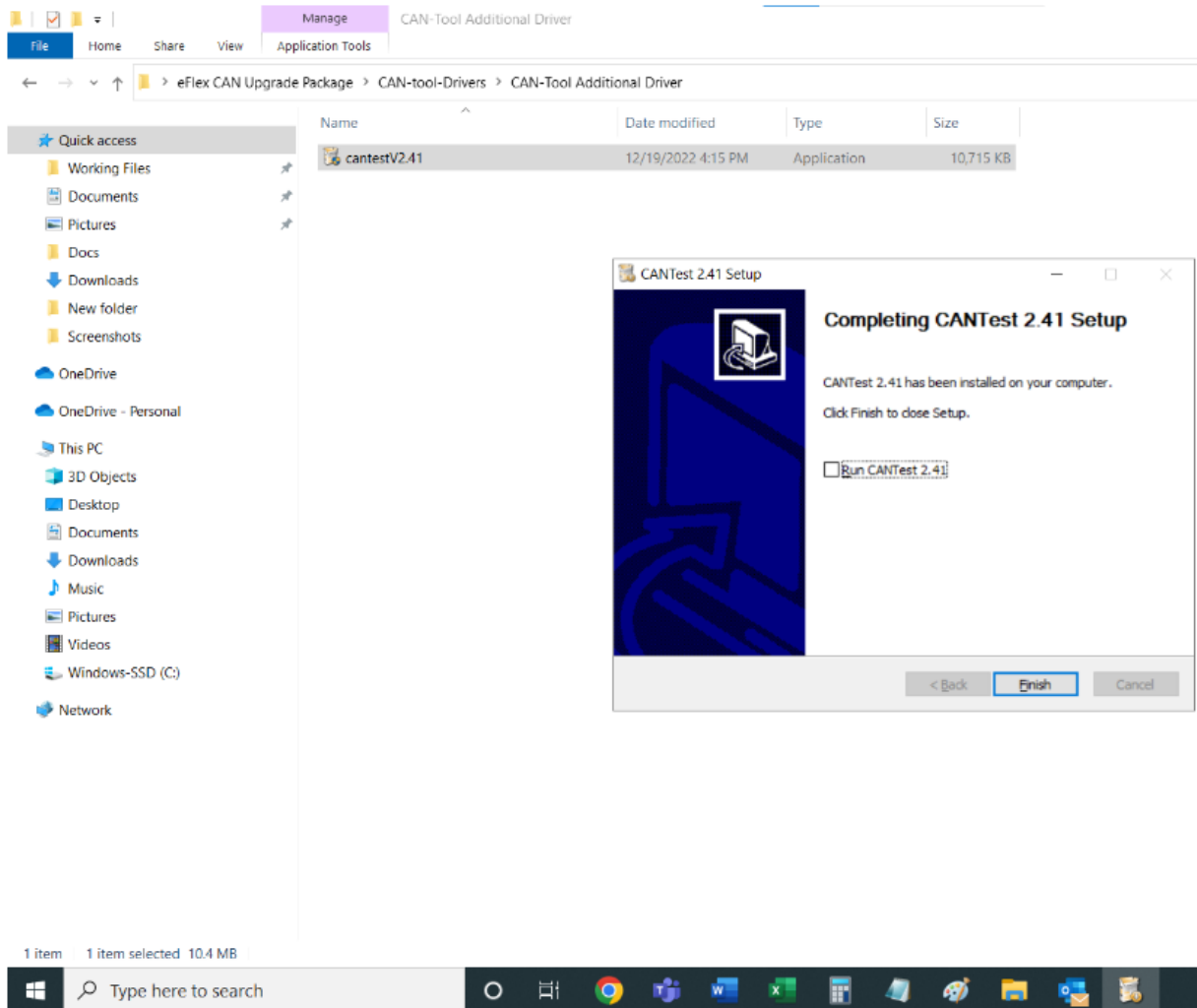
11. Then click "Install" and the installation process will start.

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 "cantestV2.41" is selected in the main pane. The file details table is as follows:

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

An "CANTest 2.41 Setup" dialog box is overlaid on the file explorer. It has the title "Choose Install Location" and the instruction "Choose the folder in which to install CANTest 2.41." Below this, it states: "Setup will install CANTest 2.41 in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation." A text box labeled "Destination Folder" contains the path "C:\Program Files (x86)\CANTest\" and a "Browse..." button is to its right. Below the text box, it shows "Space required: 26.4MB" and "Space available: 345.2GB". At the bottom of the dialog, there are three buttons: "< Back", "Install", and "Cancel". The "Install" button is highlighted in blue.

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.

Obtaining and Organizing the Required Files

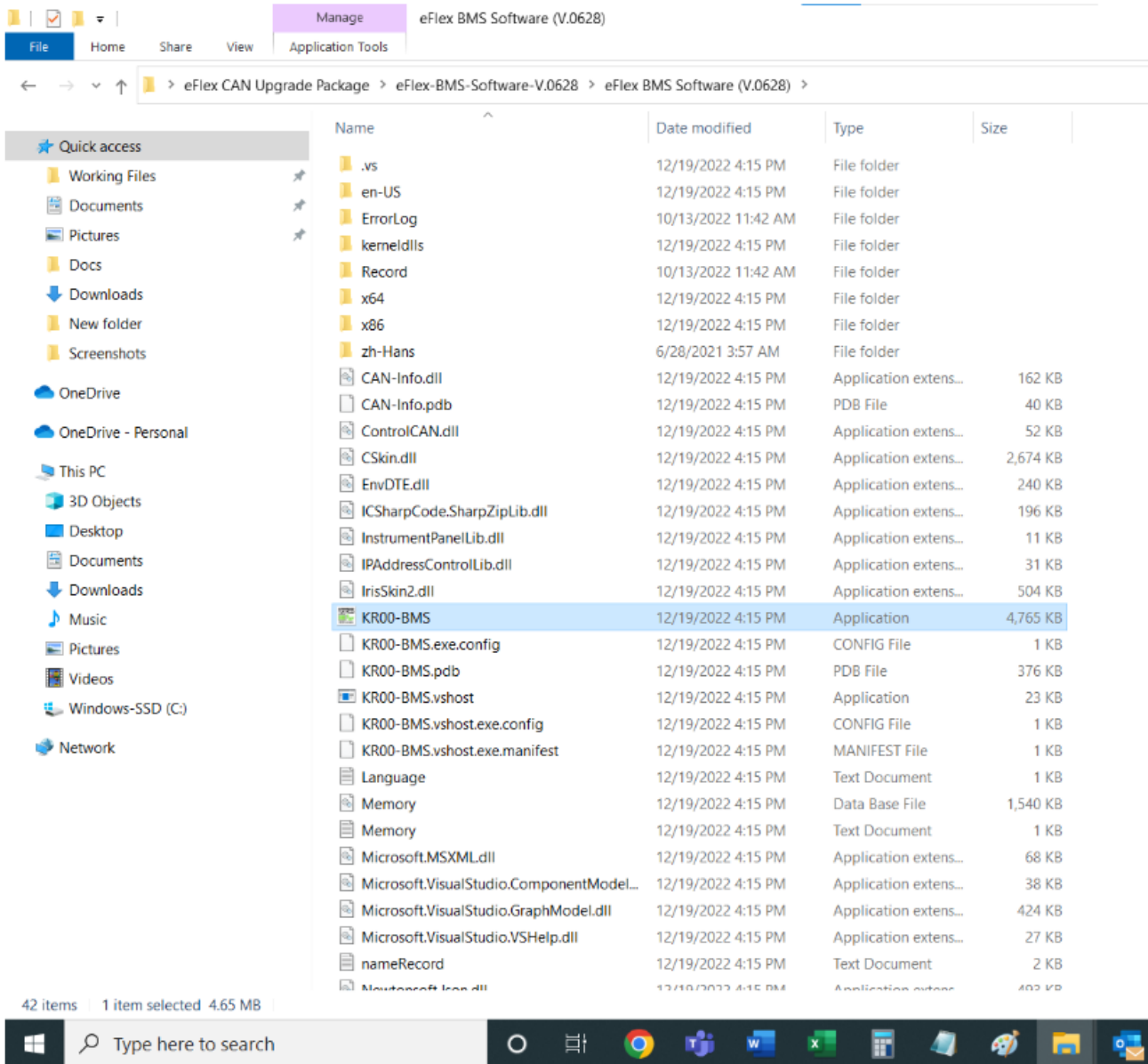
Important!

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.

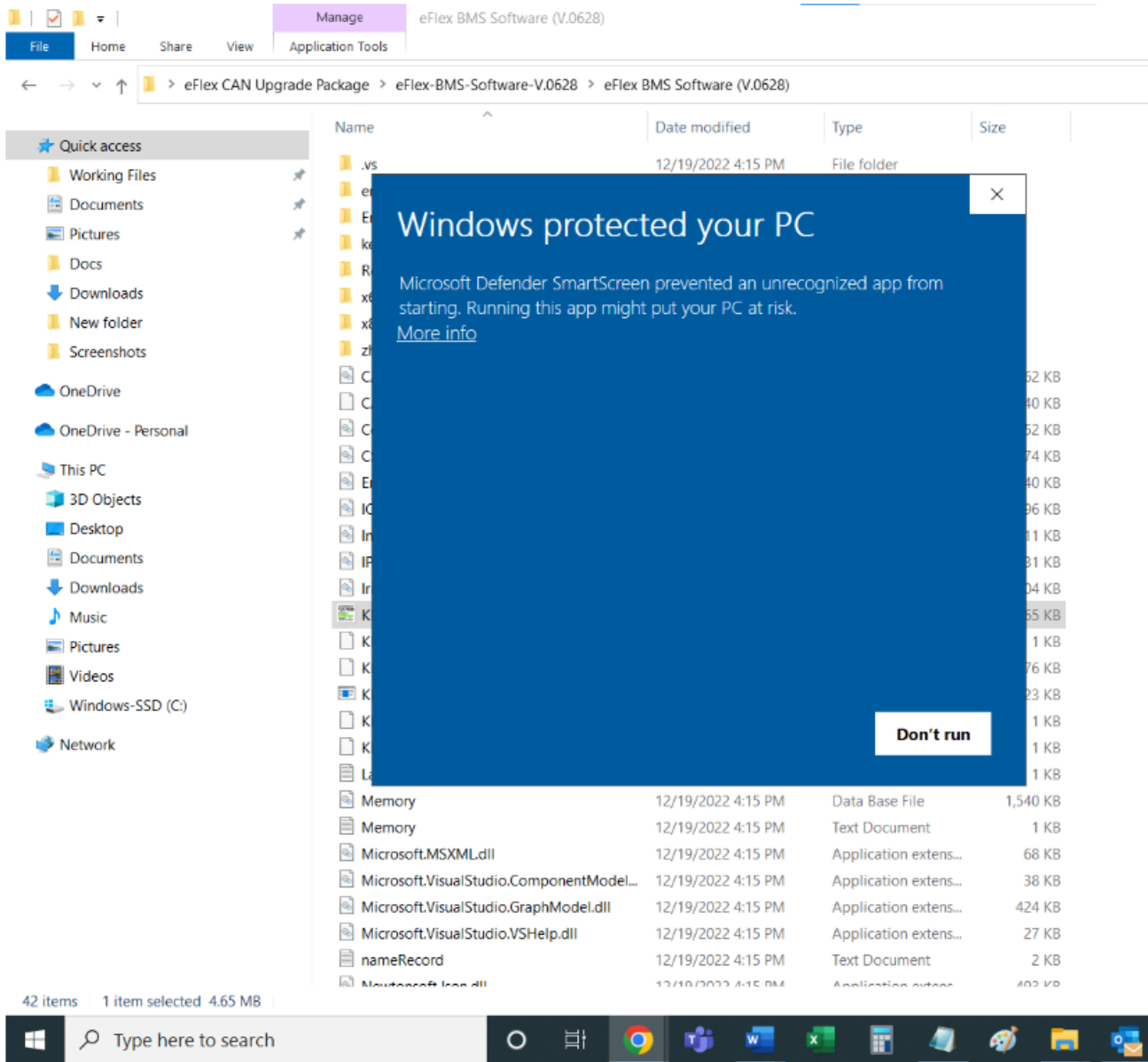
Firmware must be updated on one battery at a time. During the firmware update, the battery must be communicating neither with an inverter nor with any other battery. Unplug the battery to inverter communication cable, next, turn off the other batteries in the loop and keep turned on only the battery 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.

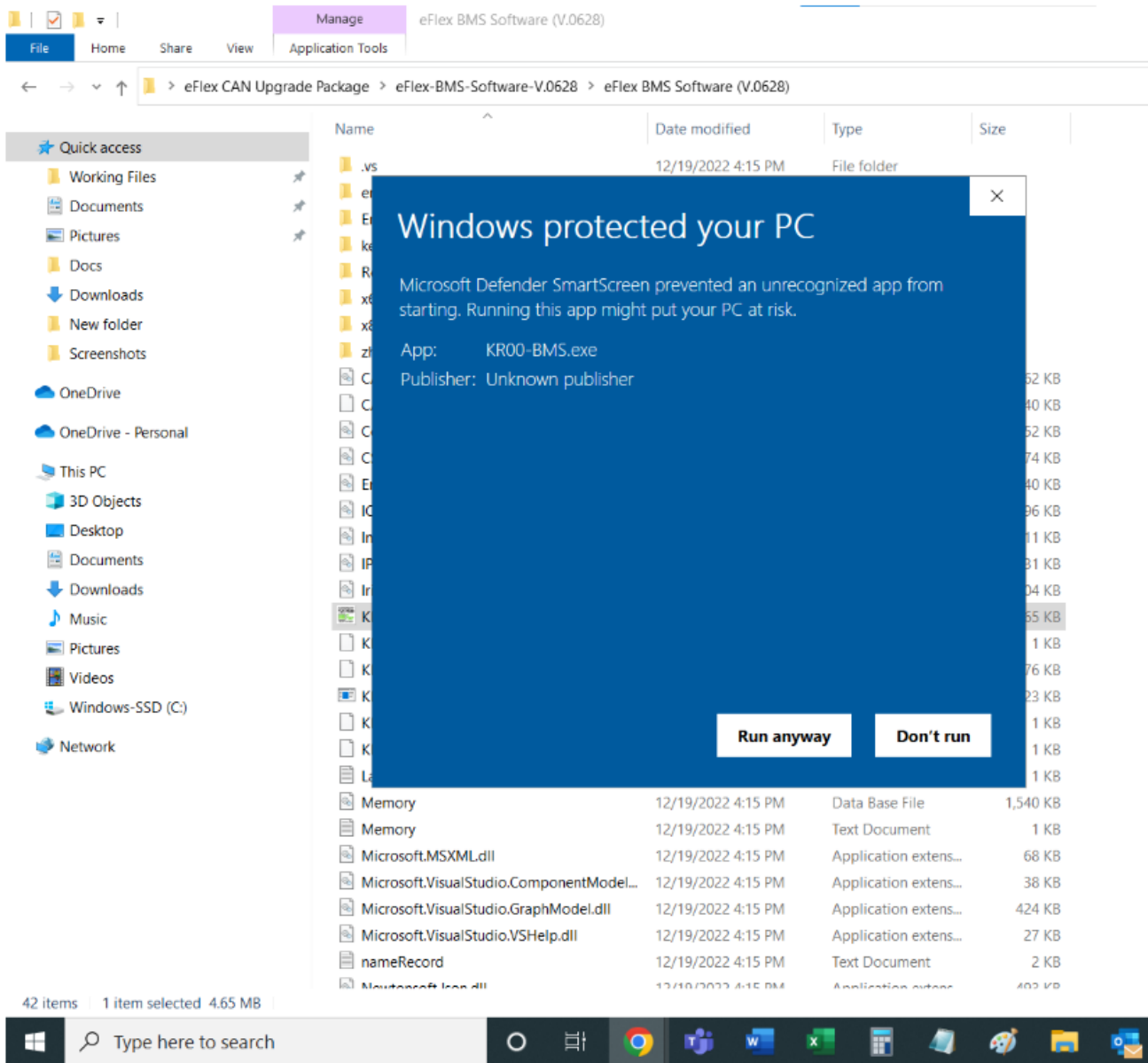
1. Open "eFlex CAN Upgrade Package" folder, then open "eFlex-BMS-Software-V...." folder and double click on the subfolder with the same folder name, "eFlex-BMS-Software-V....". Afterwards, Find a file named KR00-BMS. Open this file by double-clicking on it.



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



3. Next, click on "Run anyway".



- 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".

KR00-BMS-2020_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

CAN

WIFI

01	02	03	04
<ul style="list-style-type: none"> 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 - 	<ul style="list-style-type: none"> 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 - 	<ul style="list-style-type: none"> 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 - 	<ul style="list-style-type: none"> 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	02	03	04
Detail	Detail	Detail	
Update	Update	Update	Update
UPS WIFI	UPS WIFI	UPS WIFI	UPS WIFI

State

Type here to search

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

KR00-BMS-2020_20210628

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 a grid of configuration panels for four units (01, 02, 03, 04). Each panel contains a list of parameters such as "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)", "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".

A "Communication Configuration" dialog box is open in the center. It contains the following fields and buttons:

- Choose CAN Device:** A dropdown menu showing "USBCAN2USBCAN2A".
- CAN Channel:** A dropdown menu showing "0".
- CAN Baud Rate:** A dropdown menu showing "250K".
- Buttons:** "Disconnect CAN" and "Connection CAN".

At the bottom of the interface, there is a Windows taskbar with 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.

KR00-BMS-2020_20210628

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 four columns, each representing a battery unit (01, 02, 03, 04). Each column 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)", "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".

In the center, a "Communication Configuration" dialog box is open. It has a title bar with a close button (X). The dialog contains a "Choose CAN Device" dropdown menu set to "USBCAN2\USBCAN2A". Below this, there are two "CAN" labels, each with a dropdown menu. A smaller "CAN Connected" dialog box is overlaid on top of the main dialog, featuring a close button (X) and an "OK" button. The main dialog also has "Disconnect CAN" and "Close" buttons at the bottom.

At the bottom of the interface, there is a "State" bar with a search field containing "Type here to search" and a taskbar with various application icons including Chrome, Word, Excel, and File Explorer.

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

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 54.6	Unit Voltage -	Unit Voltage -	Unit Volta
Unit Current -0.5	Unit Current -	Unit Current -	Unit Curr
Unit SOC 100	Unit SOC -	Unit SOC -	Unit St
Charge Relay Status Make	Charge Relay Status -	Charge Relay Status -	Charge Relay Stat
Discharge Relay Status Make	Discharge Relay Status -	Discharge Relay Status -	Discharge Relay Stat
Pre-charge Relay Status Break	Pre-charge Relay Status -	Pre-charge Relay Status -	Pre-charge Relay Stat
System Average Voltage 546	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 Stat
Insulation resistance(kΩ) 65535	Insulation resistance(kΩ) -	Insulation resistance(kΩ) -	Insulation resistance(k
Pre_Volt(V) 553	Pre_Volt(V) -	Pre_Volt(V) -	Pre_Volt(V
Max Cell Volt(mV) 3547	Max Cell Volt(mV) -	Max Cell Volt(mV) -	Max Cell Volt(m
Max Cell Volt Num 7	Max Cell Volt Num -	Max Cell Volt Num -	Max Cell Volt Nu
Min Cell Volt(mV) 3339	Min Cell Volt(mV) -	Min Cell Volt(mV) -	Min Cell Volt(m
Min Cell Volt Num 16	Min Cell Volt Num -	Min Cell Volt Num -	Min Cell Volt Nu
Max Temp(°C) 26	Max Temp(°C) -	Max Temp(°C) -	Max Temp(°
Max Temp Num 6	Max Temp Num -	Max Temp Num -	Max Temp Nu
Min Temp(°C) 24	Min Temp(°C) -	Min Temp(°C) -	Min Temp(°
Min Temp Num 3	Min Temp Num -	Min Temp Num -	Min Temp Nu
Software Version 3010	Software Version -	Software Version -	Software Versi
Hardware Version d	Hardware Version -	Hardware Version -	Hardware Versi
Alarm Level 2	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) 68.966	Discharge Energy(kWH) -	Discharge Energy(kWH) -	Discharge Energy(kW
UPS Manufacturer C=2 M=5 W=on	UPS Manufacturer -	UPS Manufacturer -	UPS Manufactu
01 Detail	02 Detail	03 Detail	04
Update	Update	Update	Update
UPS WiFi	UPS WiFi	UPS WiFi	UPS WiFi
Basic information	Basic information	Basic information	Basic information
Battery ID -	Battery ID -	Battery ID -	Battery
Qty_Batt -	Qty_Batt -	Qty_Batt -	Qty_B

State

Type here to search

8. It's time to select a firmware file to be used. In the list of the information, you will see "Software Version", which shows the firmware version that the battery runs on. If the first digit of this number is either "2" or "3", use the firmware which is in the folder "Rev-A-BMS-Firmware-v...". If the first digit of this number is either "4", use the firmware which is in the folder "Rev-B-BMS-Firmware-v..."

To continue the process by selecting the appropriate firmware version, click on "Update".

KR00-BMS-2020_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

Panel ID	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	2009054E0133	1	54.6	-0.5	100	Make	Make	Break	546	1	Paralleled	65535	553	3543	7	3339	9	26	6	24	3	3010	d	2	12	0	68.966	C=2 M=5 W=on	
02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

State

Type here to search

9. Click "Open".

KR00-BMS-2020_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

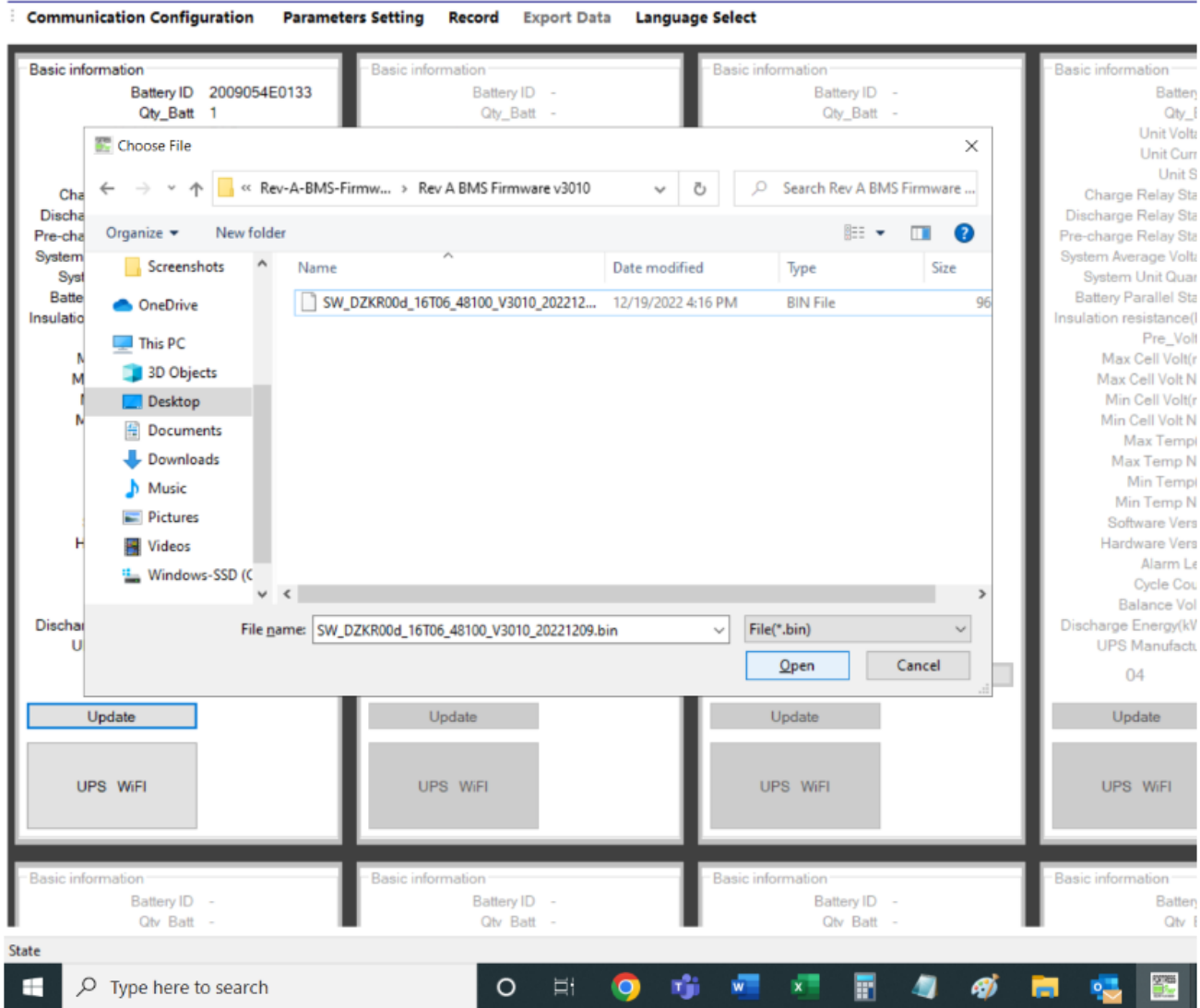
01	02	03	04
Basic information Battery ID 2009054E0133 Qty_Batt 1 Unit Voltage 54.5 Unit Current 0.0 Unit SOC 100 Charge Relay Status Make Discharge Relay Status Make Pre-charge Relay Status Break System Average Voltage 545 System Unit Quantity 1 Battery Parallel Status Insulation resistance(kΩ) Pre_Volt(V) 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) 68.966 UPS Manufacturer C=2 M=5 W=on	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 - 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 -	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 - 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 -	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 - 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	02	03	04
Update	Update	Update	Update
UPS WiFi	UPS WiFi	UPS WiFi	UPS WiFi

State

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10. Navigate to the "eFlex CAN Upgrade Package" in this pop-up window, double-click on "eFlex CAN Upgrade Package" and then double click on "eFlex Firmware" and double-click on the single file that this folder contains. Afterwards, click "Open".

KR00-BMS-2020_20210628



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

KR00-BMS-2020_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

01	02	03	04
Basic information Battery ID 2009054E0133 Qty_Batt 1 Unit Voltage 54.5 Unit Current 0.0 Unit SOC 100 Charge Relay Status Make Discharge Relay Status Make Pre-charge Relay Status Break System Average Voltage 545 System Unit Quantity 1 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) 68.966 UPS Manufacturer C=2 M=5 W=on	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 - 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	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 - 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	Basic information Battery Qty_B Unit Volta Unit Curr Unit SO Charge Relay Stat Discharge Relay Stat Pre-charge Relay Stat System Average Volta System Unit Quanti Battery Parallel Stat Insulation resistance(k 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 Versi Hardware Versi Alarm Lei Cycle Cour Balance Volt Discharge Energy(kW UPS Manufactu
01	02	03	04
Update	Update	Update	Update
UPS WiFi	UPS WiFi	UPS WiFi	UPS WiFi

State

Type here to search

12. Percentage will start increasing.

KR00-BMS-2020_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

01	02	03	04
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 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 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 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 Update UPS WiFi

BMS Update

BMS:

File:

Download: 77%

Open

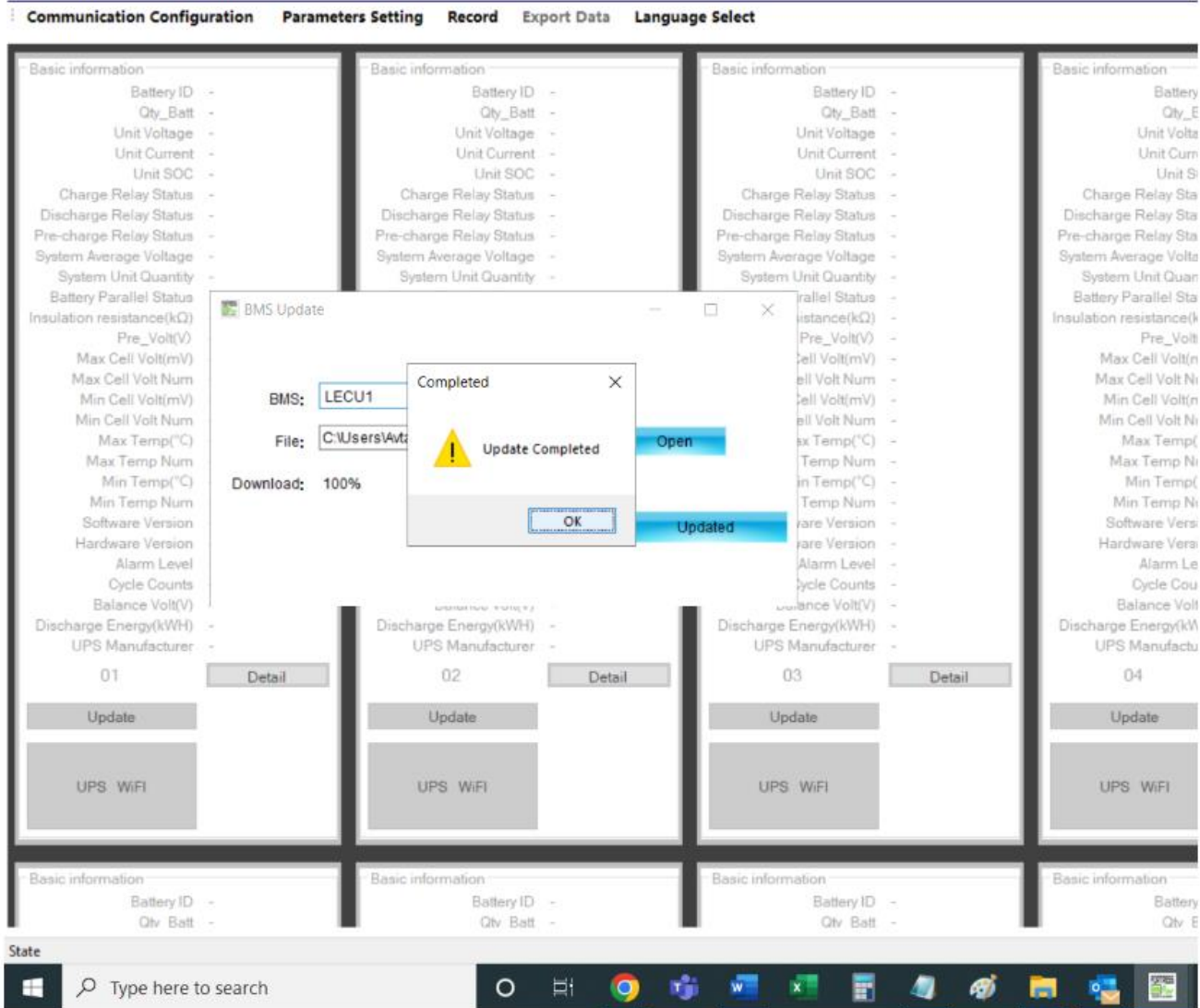
Updating...

State

Type here to search

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



The firmware is now updated!

Selecting CAN Protocol ID

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

CAN ("C") Protocol IDs	
Sol-ark	2
SMA	2
Victron	3

KR00-BMS-2020_20210628

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". Below this, there are four panels, each representing a different unit (01, 02, 03, 04). Each panel has a "Basic information" section with various parameters. The first panel (Unit 01) is active, showing parameters such as Battery ID (2009054E0133), Unit Voltage (54.3), and Discharge Energy (68.971 kWh). The "UPS Manufacturer" field is highlighted with a red box and contains the value "C=2 M=5 V=on". Below the parameters, there are buttons for "Update", "UPS WiFi", and "Detail". The other three panels (02, 03, 04) are inactive, with their parameters and buttons greyed out. At the bottom of the interface, there is a Windows taskbar with a search bar and several 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

01	02	03	04
<p>Basic information</p> <p>Battery ID 2009054E0133</p> <p>Qty_Batt 1</p> <p>Unit Voltage 54.3</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 543</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) 3497</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=2 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 Vers -</p> <p>Hardware Vers -</p> <p>Alarm Le -</p> <p>Cycle Cou -</p> <p>Balance Vol -</p> <p>Discharge Energy(kV -</p> <p>UPS Manufact.</p> <p>04</p> <p>Update</p> <p>UPS WiFi</p>

State

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- 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".

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) 3493</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=1 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

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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
Basic information 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) 3489 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=3 M=5 W=on	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 -	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 -	Basic information Battery Qty_B Unit Volta Unit Curre Unit SOC Charge Relay Stat Discharge Relay Stat Pre-charge Relay Stat System Average Volta System Unit Quanti Battery Parallel Stat Insulation resistance(k Pre_Volt(Max Cell Volt(m Max Cell Volt Nu Min Cell Volt(m Min Cell Volt Nu Max Temp(Max Temp Nu Min Temp(Min Temp Nu Software Versi Hardware Versi Alarm Lev Cycle Cour Balance Volt(Discharge Energy(kW UPS Manufactur
01	02	03	04
Update	Update	Update	Update
UPS WiFi	UPS WiFi	UPS WiFi	UPS WiFi

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
Basic information 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 Max Cell Volt Num 7 Min Cell Volt(mV) 27 Min Cell Volt Num 1 Max Temp(°C) 55 Min Temp(°C) 5 Min Temp Num 1 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	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) - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWH) - UPS Manufacturer -	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) - Min Temp(°C) - Min Temp Num - Software Version - Hardware Version - Alarm Level - Cycle Counts - Balance Volt(V) - Discharge Energy(kWH) - UPS Manufacturer -	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) - Min Temp(°C) - Min Temp Num - 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

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
Basic information 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	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 -	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 -	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	02	03	04
Update	Update	Update	Update
UPS WiFi	UPS WiFi	UPS WiFi	UPS WiFi
Basic information Battery ID - Qty_Batt -	Basic information Battery ID - Qty_Batt -	Basic information Battery ID - Qty_Batt -	Basic information Battery ID - Qty_Batt -

State

Type here to search

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

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 54.1</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 541</p> <p>System Unit Quantity 1</p> <p>Battery Parallel Status Paralleled</p> <p>Insulation resistance(kΩ) 65535</p> <p>UPS-CAN: 1</p> <p>UPS-Modbus: 1</p> <p>UPS WiFi <input checked="" type="checkbox"/></p> <p>01 Detail</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>UPS-CAN: 1</p> <p>UPS-Modbus: 1</p> <p>UPS WiFi <input type="checkbox"/></p> <p>02 Detail</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>UPS-CAN: 1</p> <p>UPS-Modbus: 1</p> <p>UPS WiFi <input type="checkbox"/></p> <p>03 Detail</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>UPS-CAN: 1</p> <p>UPS-Modbus: 1</p> <p>UPS WiFi <input type="checkbox"/></p> <p>04 Detail</p> <p>Update</p> <p>UPS WiFi</p>

State

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

KR00-BMS-2020_20210628

Communication Configuration Parameters Setting Record Export Data Language Select

01	02	03	04
Basic information 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 Parallelled Insulation resistance(kΩ) 65535	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) -	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) -	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-charge Voltage(V) - Max Cell Volt(mV) - Min Cell Volt(mV) - Max Temp(°C) - Min Temp(°C) - 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	Pre-charge Voltage(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 -	Pre-charge Voltage(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 -	Pre-charge Voltage(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 -
UPS WiFi	UPS WiFi	UPS WiFi	UPS WiFi

State

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

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 54.1</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 541</p> <p>System Unit Quantity 1</p> <p>Battery Parallel Status Parallelled</p> <p>Insulation resistance(kΩ) 65535</p> <p>UPS-CAN: 1</p> <p>UPS-Modbus: 1</p> <p>Discharge Energy(kWH) 68.976</p> <p>UPS Manufacturer C=1 M= W=on</p> <p>01 Detail</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>Min Cell Volt(mV) -</p> <p>Max Temp(°C) -</p> <p>Min Temp(°C) -</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 Detail</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>Min Cell Volt(mV) -</p> <p>Max Temp(°C) -</p> <p>Min Temp(°C) -</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 Detail</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>Min Cell Volt(mV) -</p> <p>Max Temp(°C) -</p> <p>Min Temp(°C) -</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(kV) -</p> <p>UPS Manufactur</p> <p>04 Detail</p> <p>Update</p> <p>UPS WiFi</p>

State

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

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 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</p> <p>UPS-CAN: 1 UPS-Modbus: 1</p> <p>UPS WiFi <input type="checkbox"/></p> <p>Update</p> <p>UPS WiFi</p>	<p>Basic information</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>02</p> <p>Update</p> <p>UPS WiFi</p>	<p>Basic information</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>03</p> <p>Update</p> <p>UPS WiFi</p>	<p>Basic information</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(kV) - UPS Manufactur</p> <p>04</p> <p>Update</p> <p>UPS WiFi</p>

State

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

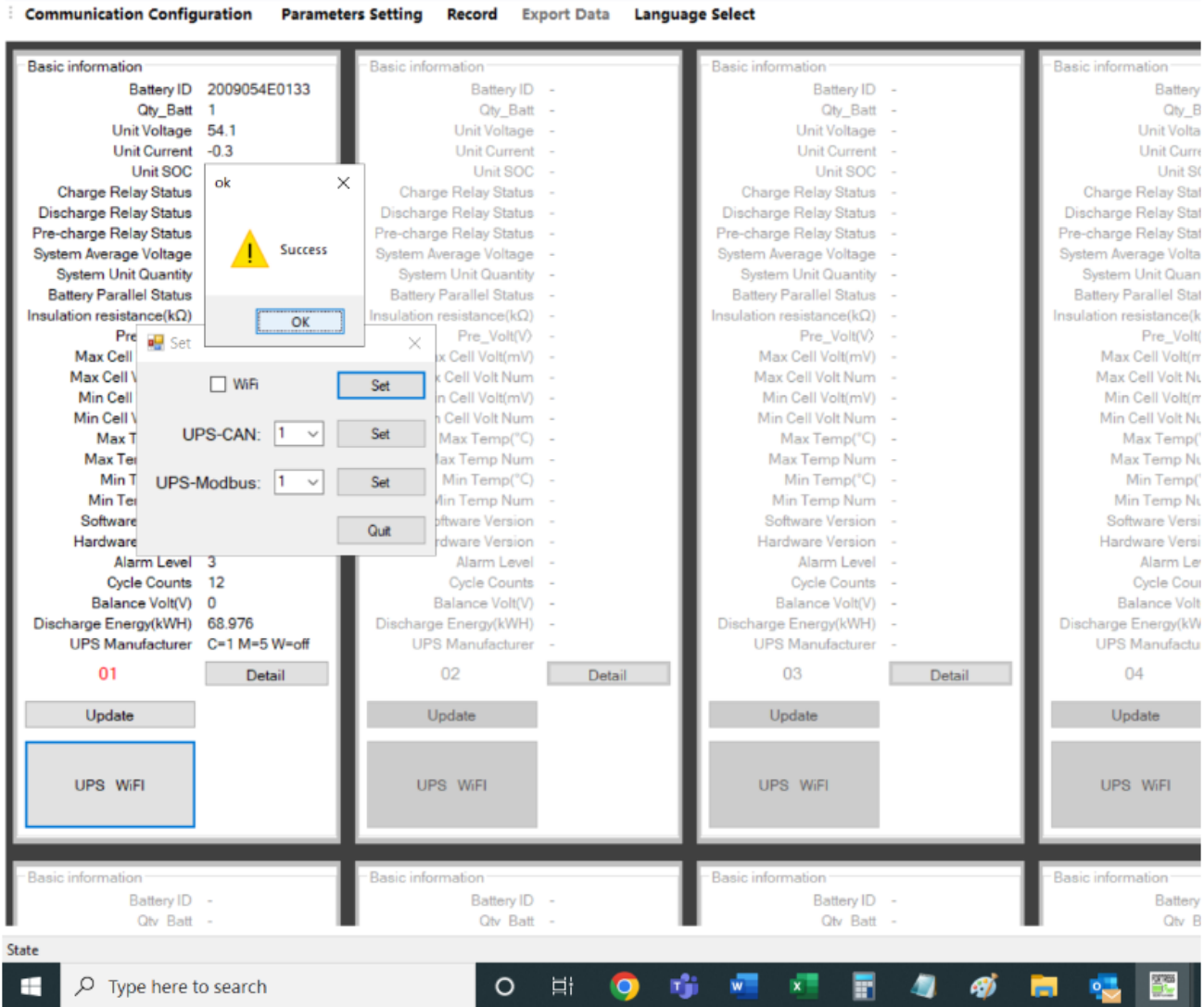
KR00-BMS-2020_20210628

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 54.1</p> <p>Unit Current -0.3</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>Min Cell Volt(mV)</p> <p>Max Temp(°C)</p> <p>Min Temp(°C)</p> <p>Software Version</p> <p>Hardware Version</p> <p>Alarm Level 3</p> <p>Cycle Counts 12</p> <p>Balance Volt(V) 0</p> <p>Discharge Energy(kWH) 68.976</p> <p>UPS Manufacturer C=1 M=5 W=off</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>Min Cell Volt(mV)</p> <p>Max Temp(°C)</p> <p>Min Temp(°C)</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>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>Min Cell Volt(mV)</p> <p>Max Temp(°C)</p> <p>Min Temp(°C)</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>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>Min Cell Volt(mV)</p> <p>Max Temp(°C)</p> <p>Min Temp(°C)</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>UPS WiFi</p>

State

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

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 54.1</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 541</p> <p>System Unit Quantity 1</p> <p>Battery Parallel Status Parallellied</p> <p>Insulation resistance(kΩ) 65535</p> <p>UPS-CAN: 1</p> <p>UPS-Modbus: 1</p> <p>Alarm Level 3</p> <p>Cycle Counts 12</p> <p>Balance Volt(V) 0</p> <p>Discharge Energy(kWH) 68.976</p> <p>UPS Manufacturer C=1 M= W=off</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>Min Cell Volt(mV) -</p> <p>Max Temp(°C) -</p> <p>Min Temp(°C) -</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>Min Cell Volt(mV) -</p> <p>Max Temp(°C) -</p> <p>Min Temp(°C) -</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>Min Cell Volt(mV) -</p> <p>Max Temp(°C) -</p> <p>Min Temp(°C) -</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

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