

SETTING UP THE VICTRON INVERTER

Instructions

TABLE OF CONTENTS

1	Equipment.....	1
2	Setting up the inverter.....	2
2.1	Parameter values	2
2.2	VE Configuration tools software.....	2
2.3	Installation of drivers.....	3
2.4	Connection to the inverter.....	5
2.5	Inverter settings	6
2.6	Send settings to the inverter.....	12

1 Equipment

You need a Victron **Interface MK3-USB** and a standard network cable to access the Victron inverter.



Figure 1: Interface MK3-USB

2 Setting up the inverter

The described parameter setting applies to **TAB e.module L5.1**.

2.1 Parameter values

Parameter		Value
DC input low shut-down		42.00 V
DC input low restart		46.50 V
DC input low pre-alarm		47.00 V
Absorption voltage		56.80 V
Float voltage		54.00 V
Absorption time		1 hour
Sustain voltage		46.00 V
Dynamic cut-off	0.005 C	48.00 V
	0.25 C	47.20 V
	0.7 C	46.40 V
	2 C	44.80 V
Restart offset		1.20 V

2.2 VE Configuration tools software

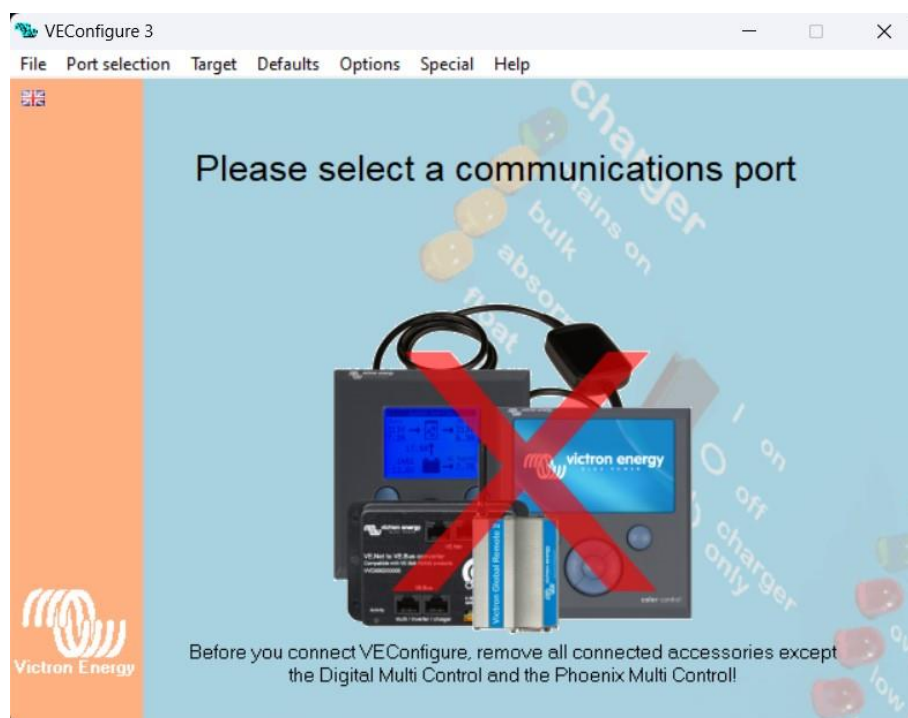
Go to the website:

<https://www.victronenergy.com/support-and-downloads/software>

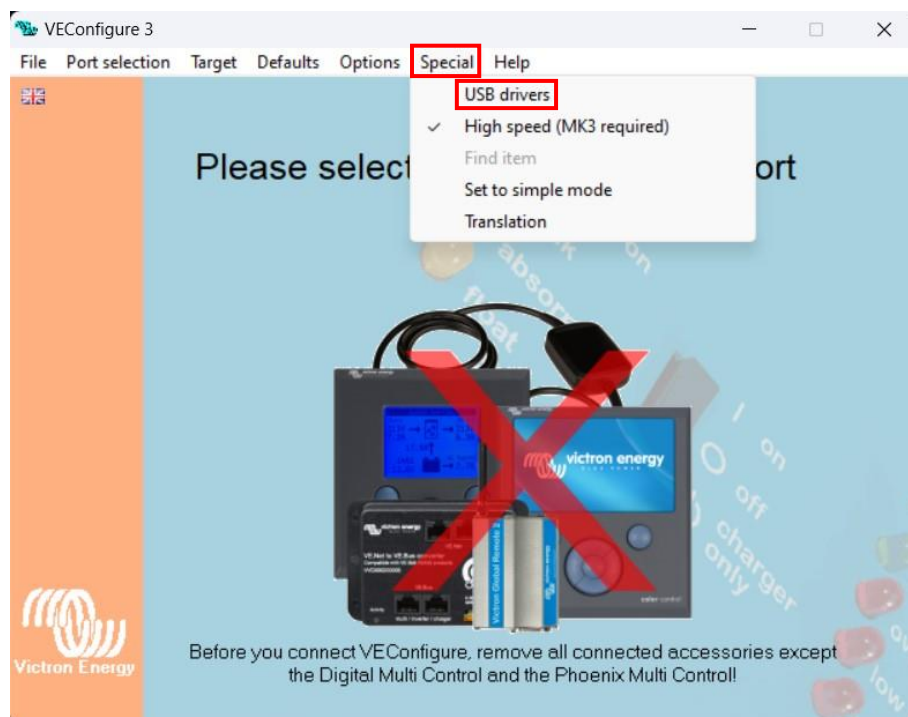
Download **VE Configuration tools** and install it.

2.3 Installation of drivers

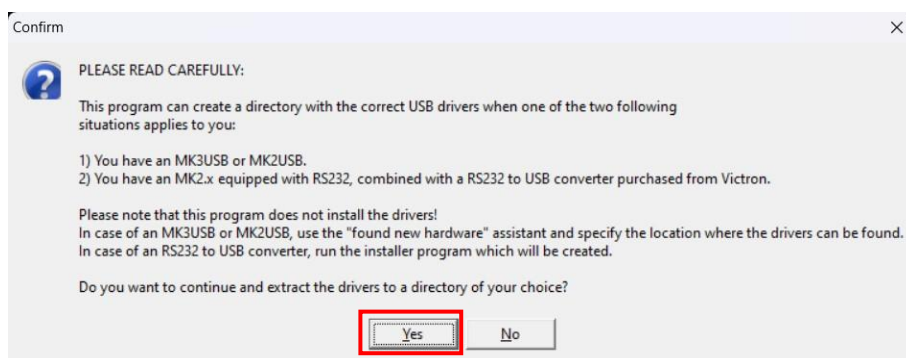
Open **VEConfigure** software. The main window will appear.



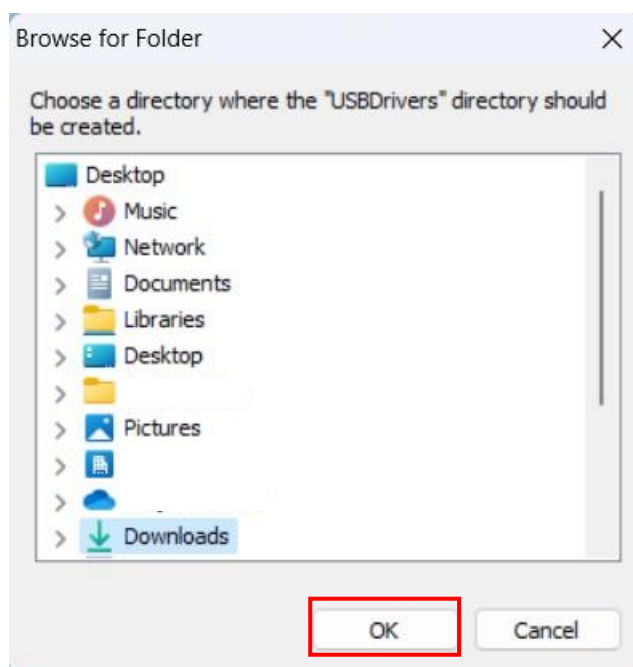
Go to "**Special**" and select "**USB drivers**".



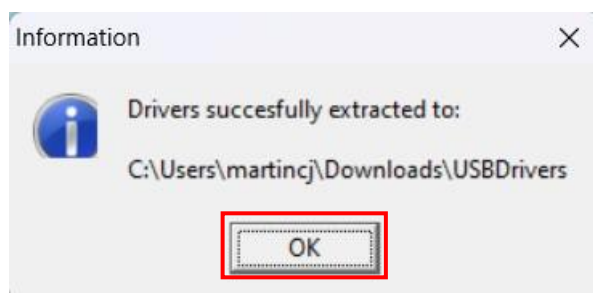
Conformation window will appear. Click **"Yes"**.



Browse the installation folder and click **"OK"**.

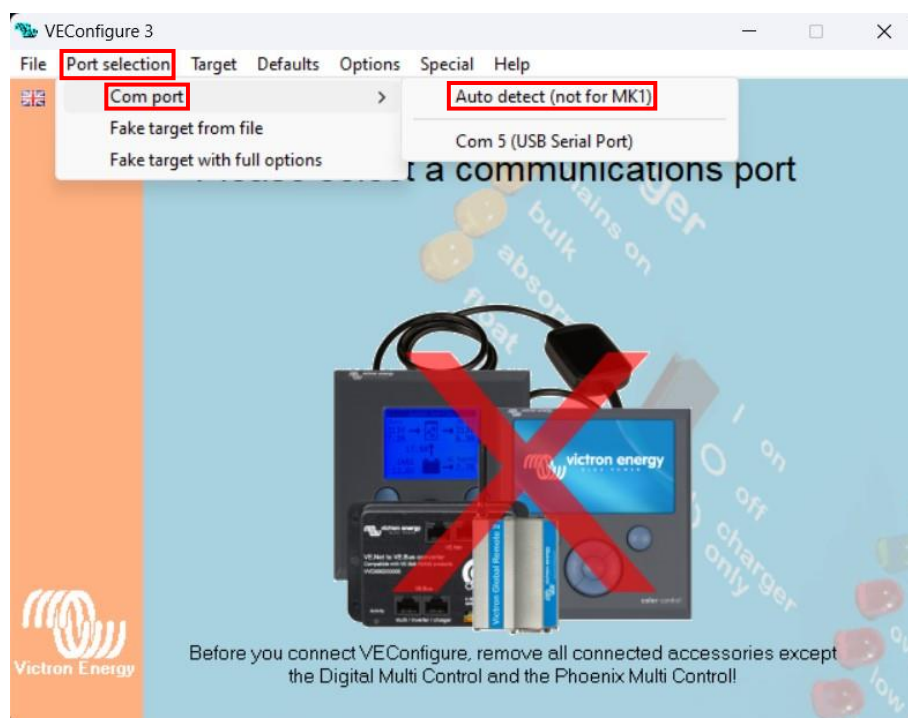


A window for successfully extracted drivers will appear. Click **"OK"**.

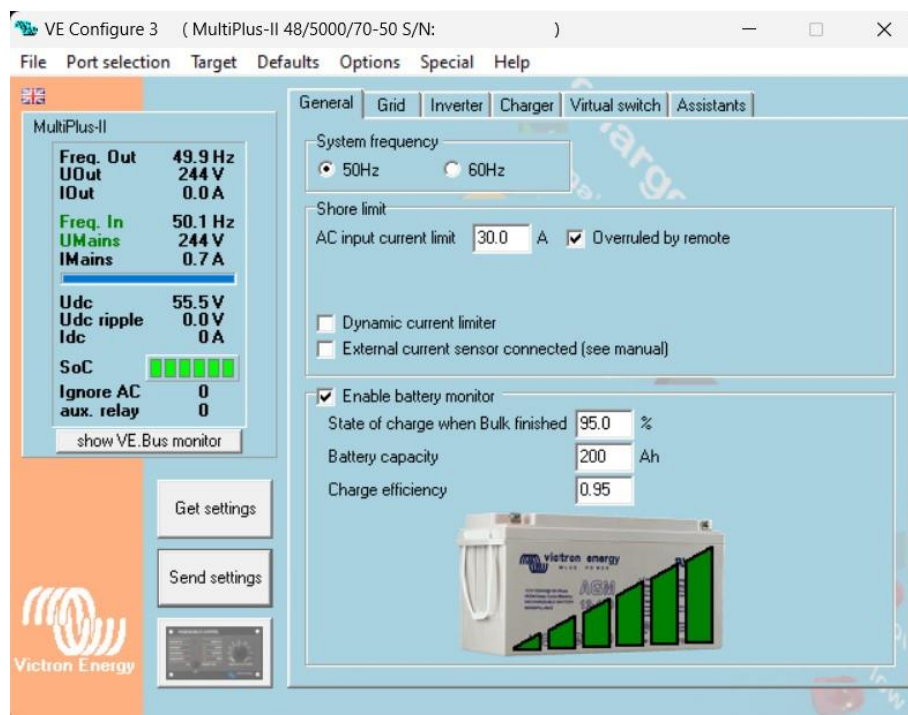


2.4 Connection to the inverter

Go to "Port selection", "Com port" and select "Auto detect".



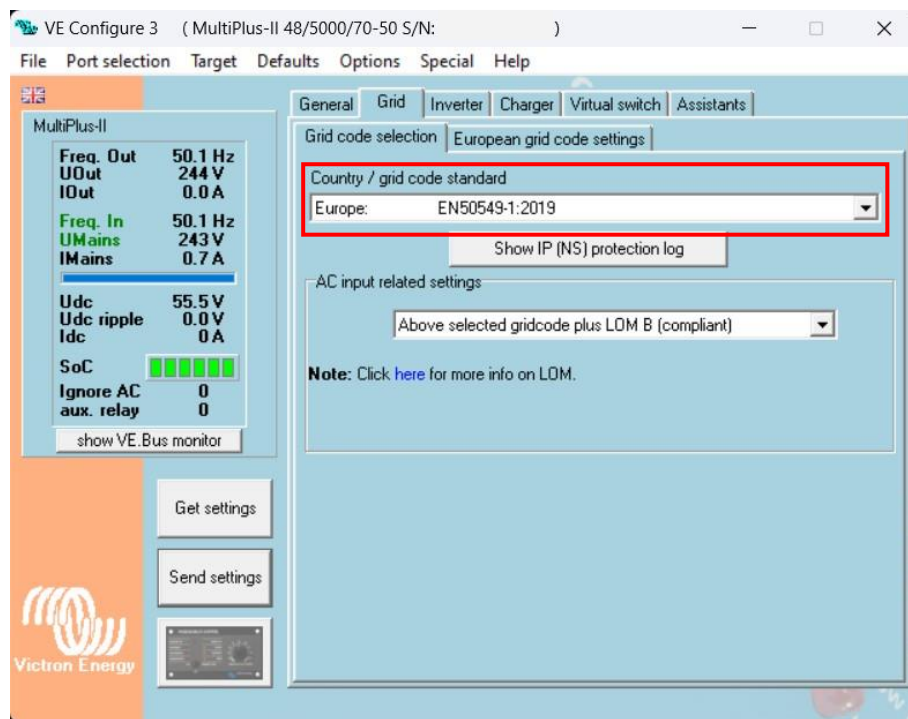
You are connected to an inverter.



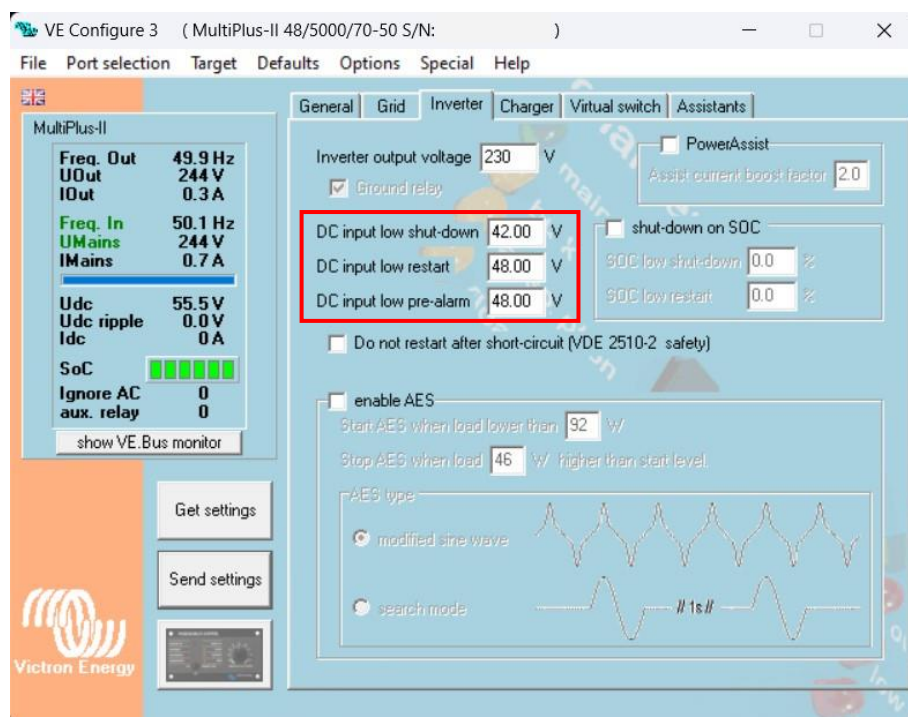
2.5 Inverter settings

[Grid] tab. Choose a "Country / grid code standard".

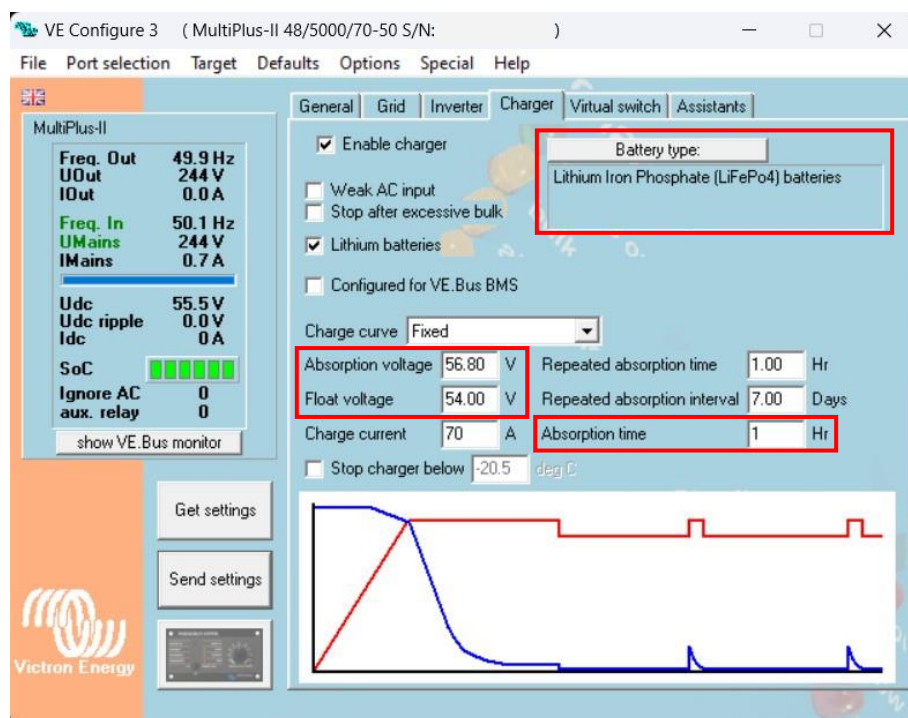
WARNING: Once selected, a password is required to change.



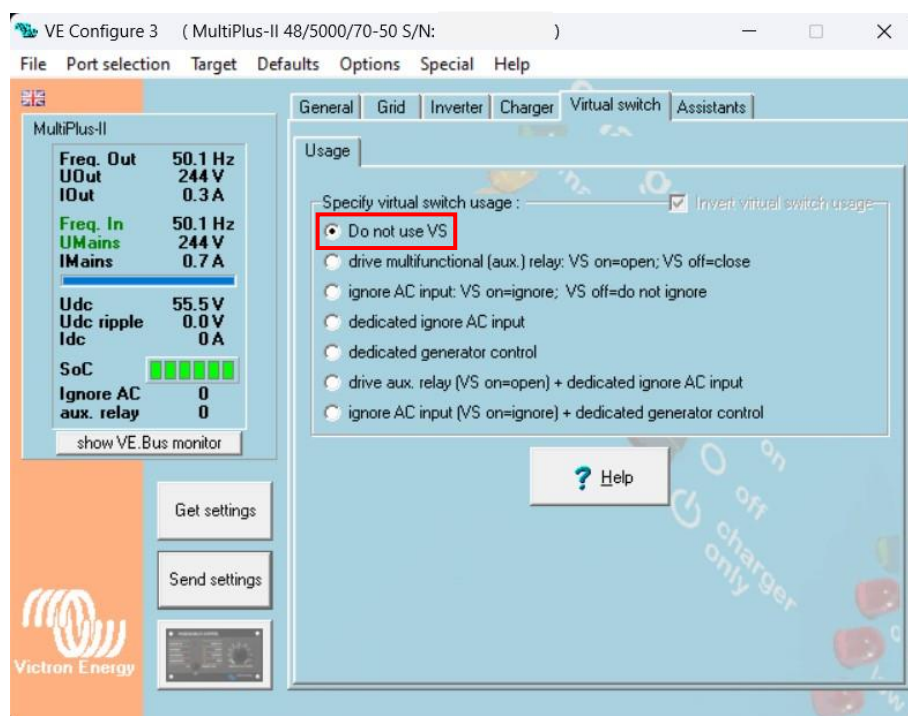
[Inverter] tab. Set parameters for "DC input low shut-down", "DC input low restart" and "DC input low pre-alarm".



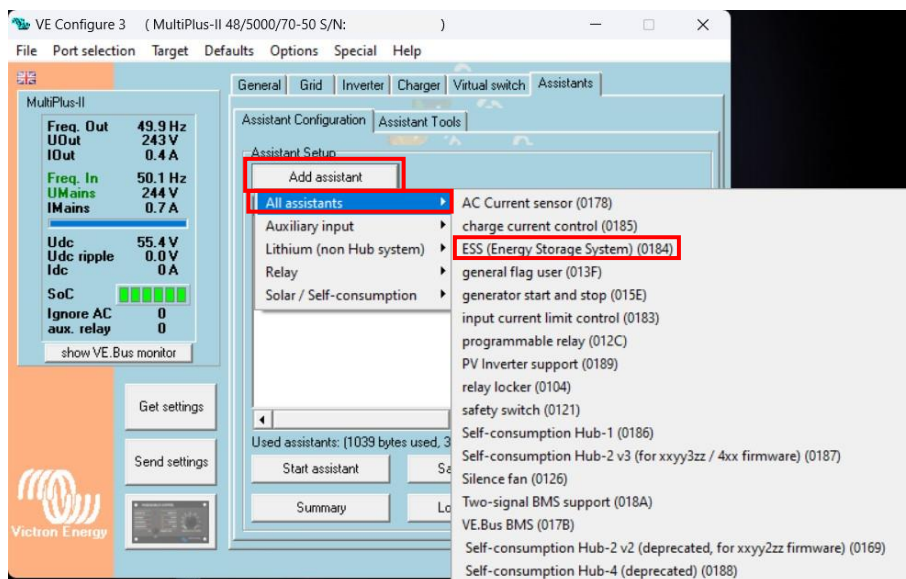
[Charger] tab. Choose a **Lithium Iron Phosphate** batteries for a "Batters type". Set parameters for "**Absorption voltage**", "**Float voltage**" and "**Absorption time**".



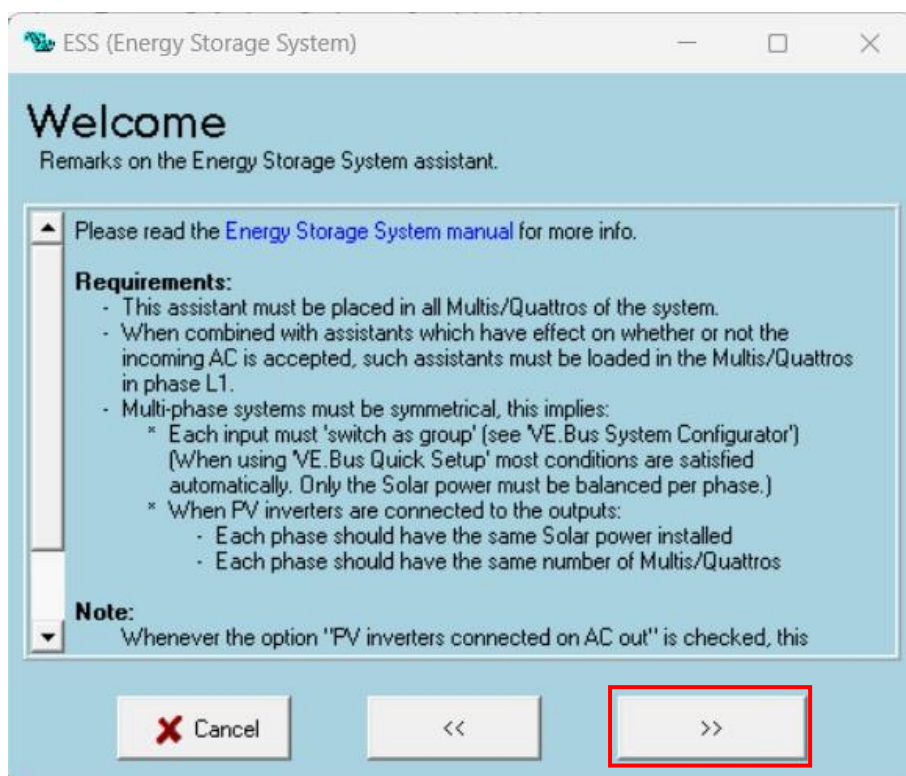
[Virtual switch] tab. **Do not use VS** should be selected.



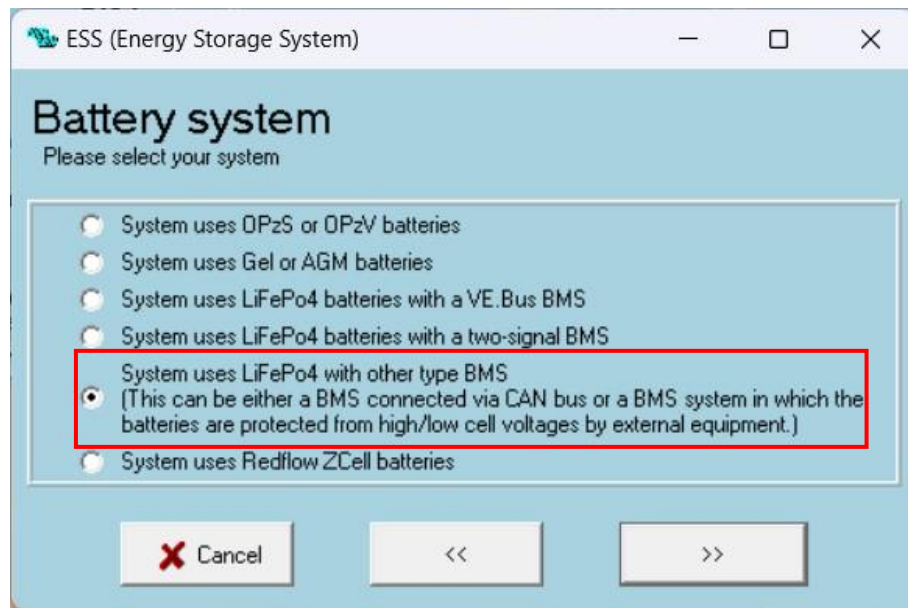
[Assistants] tab. Click "Add assistant", "All assistants" and select "ESS (Energy Storage System)".



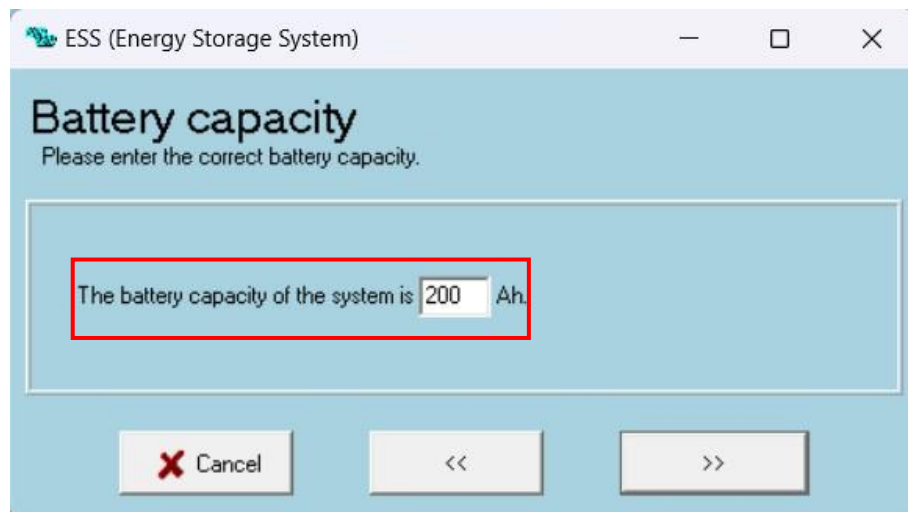
Click ">>".



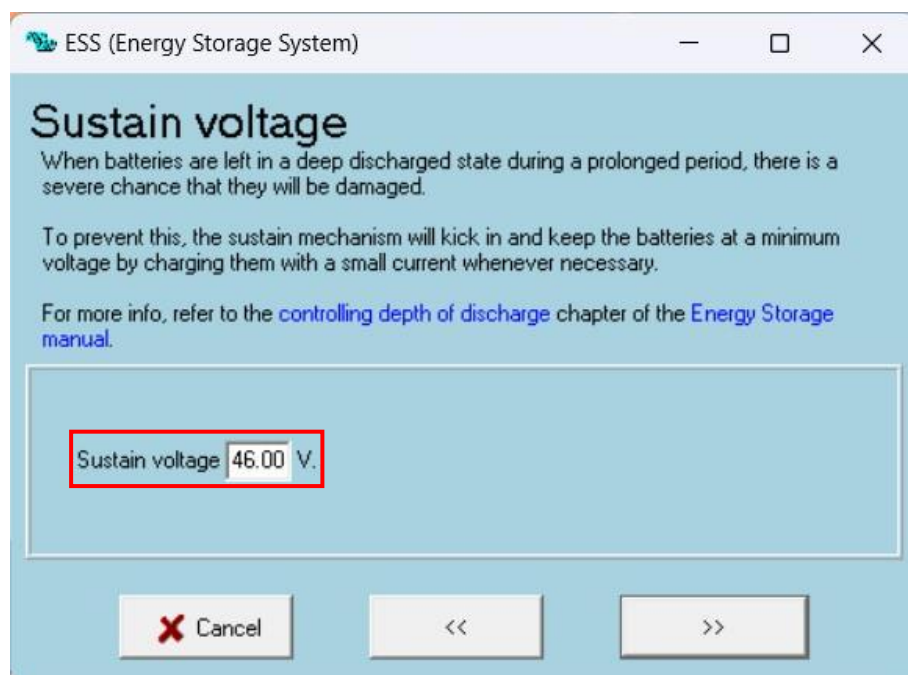
Choose **System uses LiFePo4 with other type BMS**.



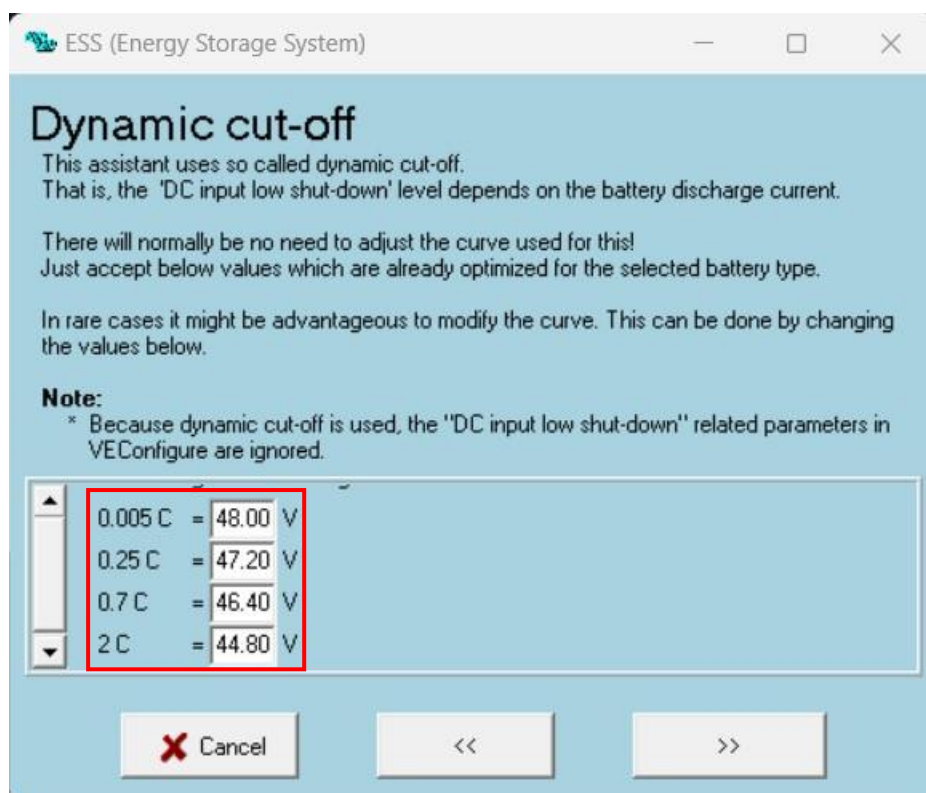
Set the battery capacity.



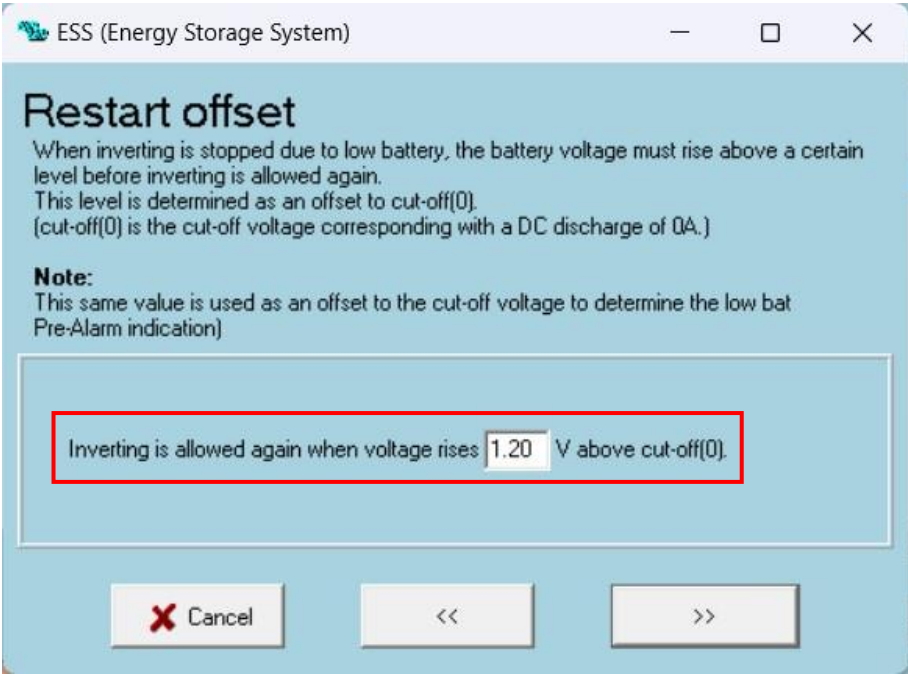
Set "Sustain voltage".



Set "Dynamic cut off" voltage.



Set "Restart offset".



ESS (Energy Storage System)

Restart offset

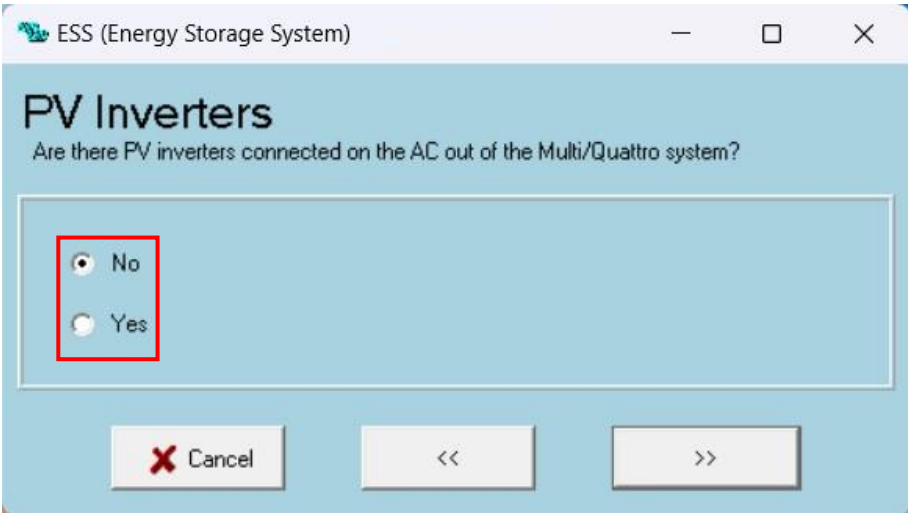
When inverting is stopped due to low battery, the battery voltage must rise above a certain level before inverting is allowed again.
This level is determined as an offset to cut-off(0).
(cut-off(0) is the cut-off voltage corresponding with a DC discharge of 0A.)

Note:
This same value is used as an offset to the cut-off voltage to determine the low bat Pre-Alarm indication)

Inverting is allowed again when voltage rises V above cut-off(0).

 Cancel << >>

Choose if it is or not.



ESS (Energy Storage System)

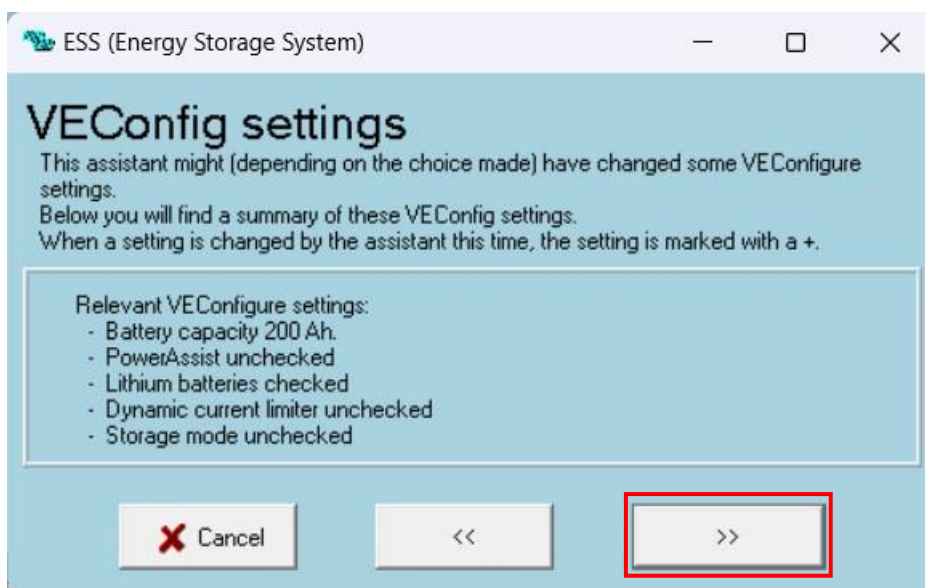
PV Inverters

Are there PV inverters connected on the AC out of the Multi/Quattro system?

☒ No
☐ Yes

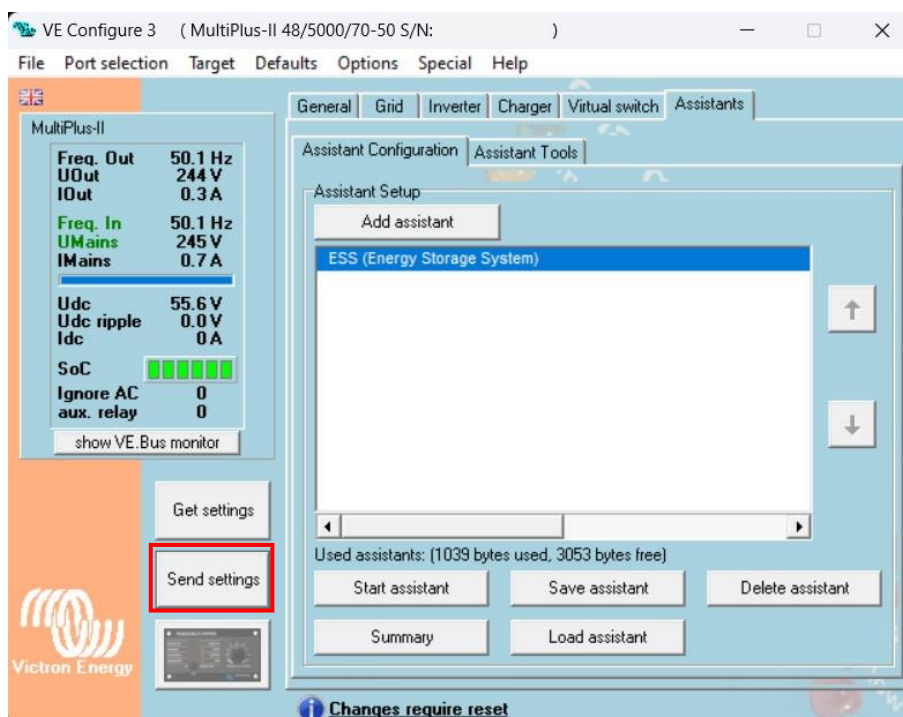
 Cancel << >>

Click ">>".

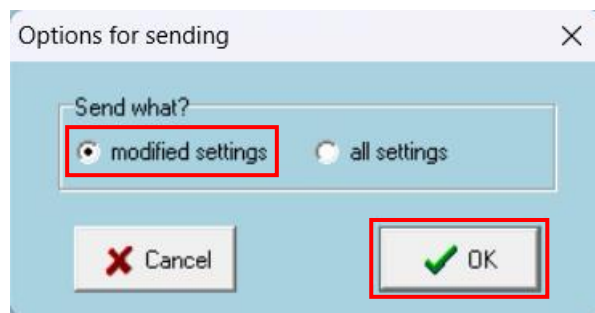


2.6 Send settings to the inverter

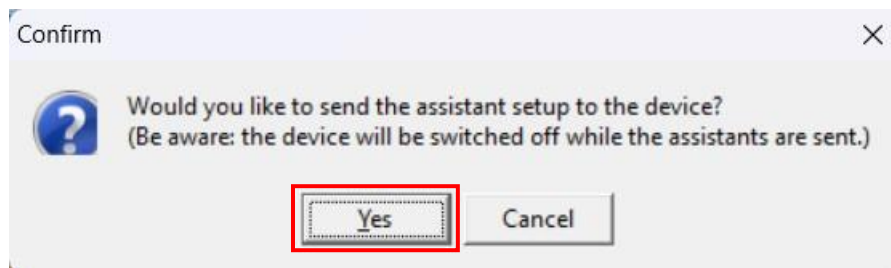
When all the parameters are set, they need to be sent to the inverter. Click "**Send settings**".



Select **modified settings** and click "OK".



Conformation windows appear. Click "Yes".



Parameters sent successfully. Click "OK".

