Connect Gobel Power Battery with Victron

1 Battery Set-up

1.1 Turning Battery ON

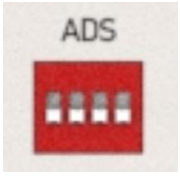
The battery can be switched on by pressing the power button labeled ON/OFF.

1.2 Choose Inverter

In the battery screen, Parameter Settings -> Set CAN Prot, choose VICTRON.

1.3 Apply Battery Address

In the battery front panel, find red DIP Switch labeled as ADS, set address for each battery as following table:



Address	1#	2#	3#	4#	Battery
0	OFF	OFF	OFF	OFF	No Parallel
1	ON	OFF	OFF	OFF	Master B1
2	OFF	ON	OFF	OFF	B2
3	ON	ON	OFF	OFF	B3
4	OFF	OFF	ON	OFF	B4
5	ON	OFF	ON	OFF	B5
6	OFF	ON	ON	OFF	B6
7	ON	ON	ON	OFF	B7
8	OFF	OFF	OFF	ON	B8
9	ON	OFF	OFF	ON	B9
10	OFF	ON	OFF	ON	B10
11	ON	ON	OFF	ON	B11
12	OFF	OFF	ON	ON	B12
13	ON	OFF	ON	ON	B13
14	OFF	ON	ON	ON	B14
15	ON	ON	ON	ON	B15

2 Connect Communication Cable

2.1 A Victron **Type B** VE.Can to CAN-bus BMS cable is required for CAN-Bus communication between the Gobel Power battery and the Victron GX device. [https://www.victronenergy.com/cables/ve-can-to-can-bus-bms]

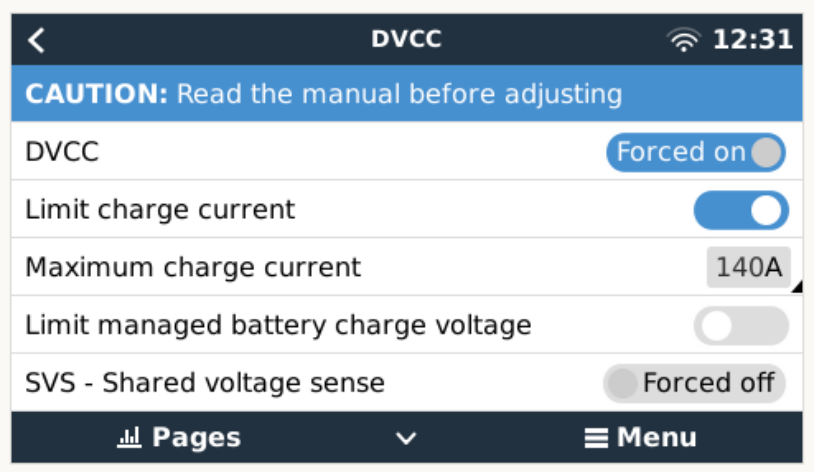
2.2 Connect BMS-Can port of Victron with CAN port of battery.

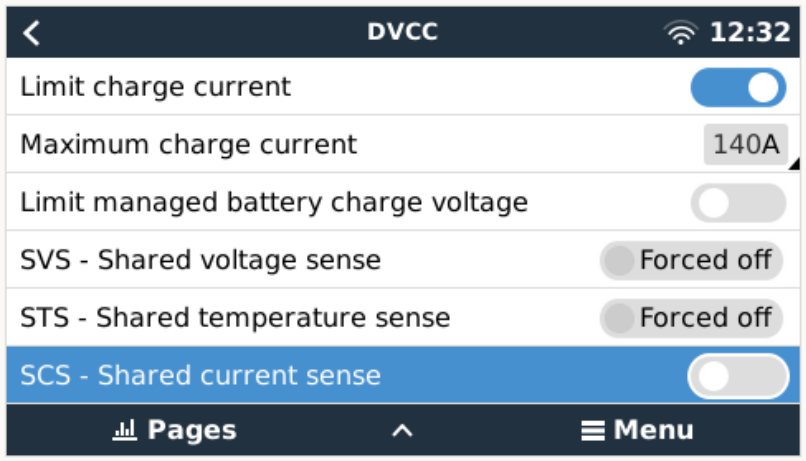
3 Battery Set-up on Victron GX Device

3.1 In Settings -> Services -> BMS-Can Port -> CAN-bus profile, make sure CAN-bus BMS (500 kbit/s) is chosen.

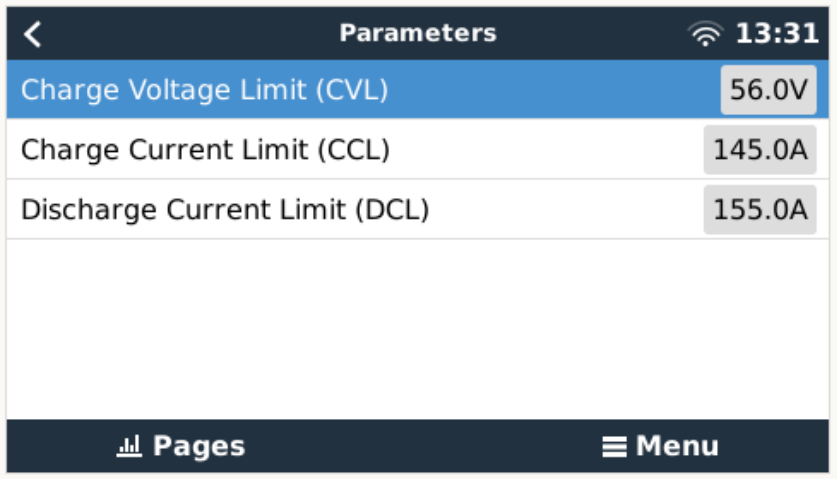
3.2 In Settings -> DVCC, make following settings:

- DVCC: Forced on
- Limit charge current: ON
- Max charge current: 0.5 * Battery Capacity (for a 51.2V 280Ah battery, Max charge current is 0.5 * 280 = 140A)

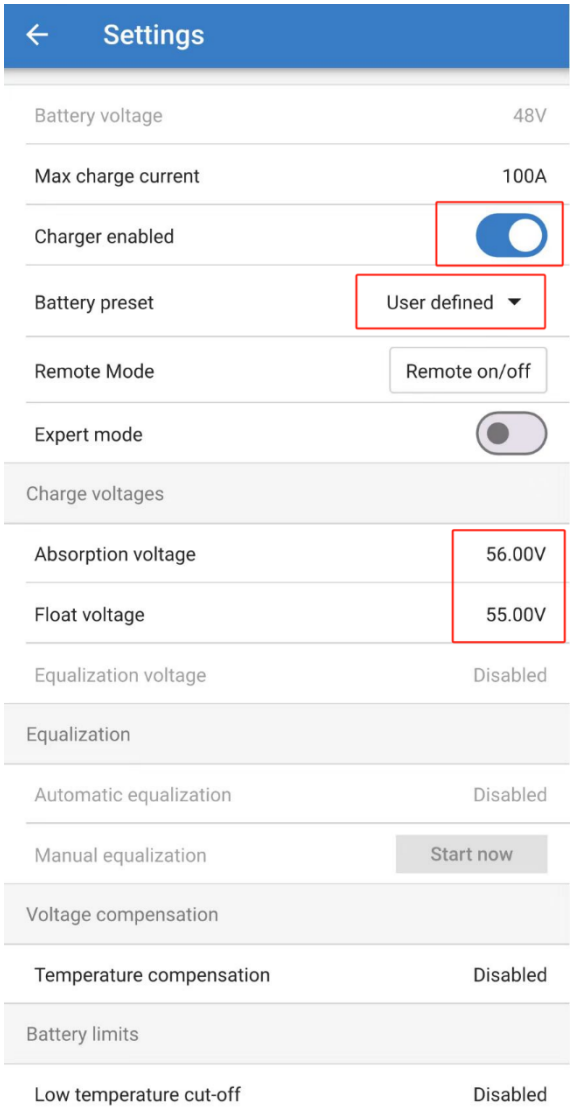




3.3 A battery will show up in device list, data will show in the battery Parameters.



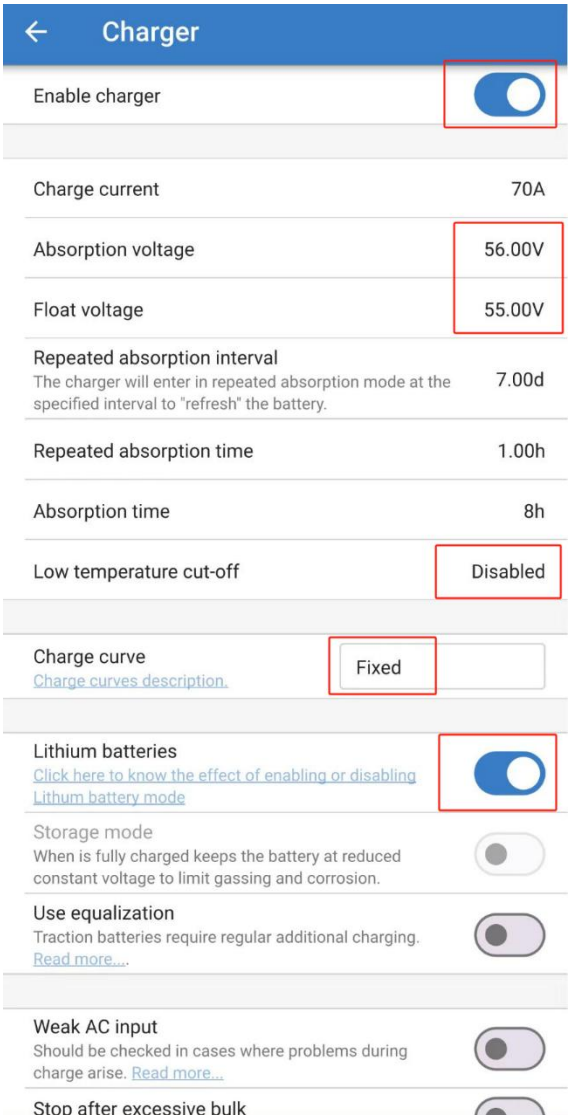
4 Victron MPPT Device Set-up (VictronConnect app)



Make following settings:

- Charger Enabled: ON
- Battery preset: User defined
- Absorption Voltage: value of Charge Voltage Limit (CVL)
- Float voltage: slightly lower than Absorption voltage
- Low temperature cut-off: Disabled

5 Victron Inverter/Charger Set-up (VictronConnect app)

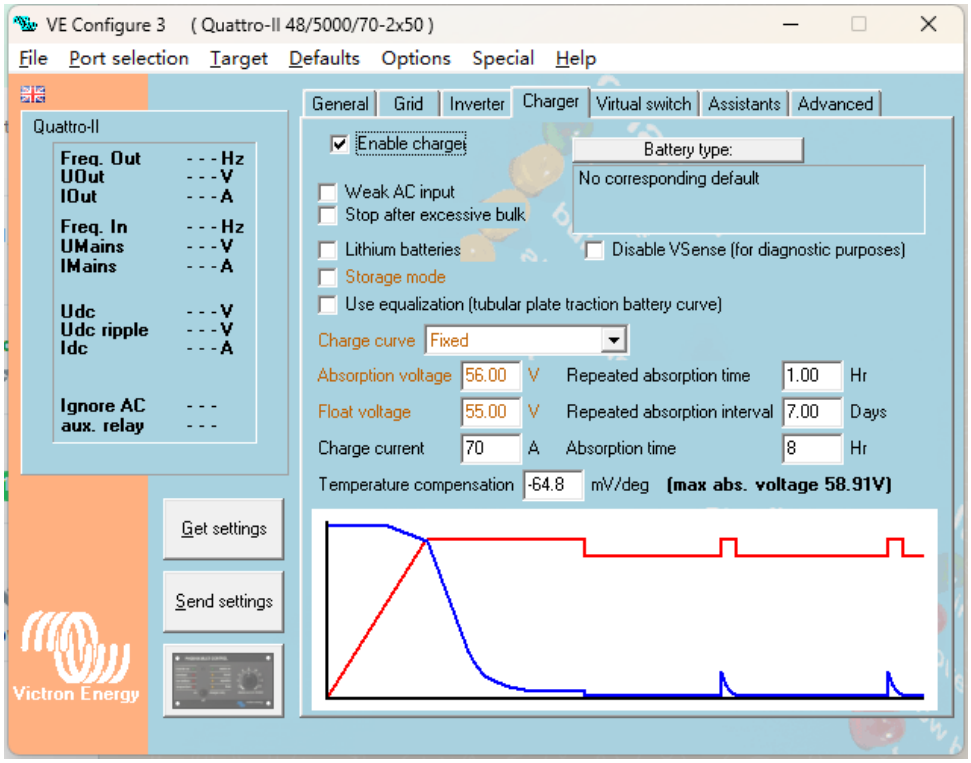


Make following settings for

Charger:

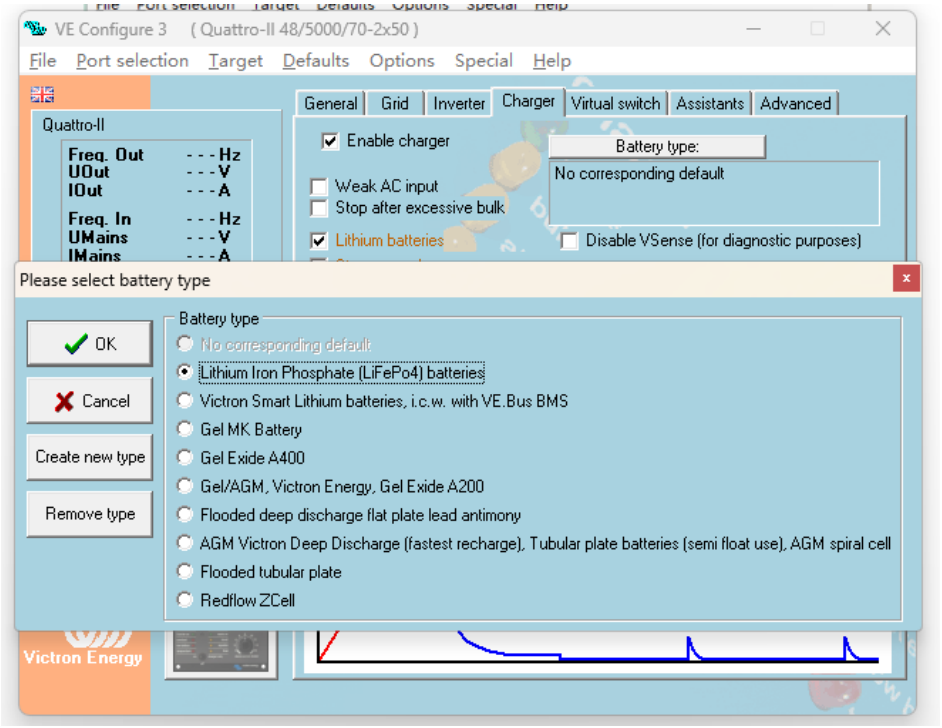
- Enable Charger: ON
- Absorption Voltage: value of Charge Voltage Limit (CVL)
- Float voltage: slightly lower than Absorption voltage
- Low temperature cut-off: Disabled
- Charge Curve: Fixed
- Lithium batteries: ON

6 Victron Inverter/Charger Set-up (VE Configuration tools)

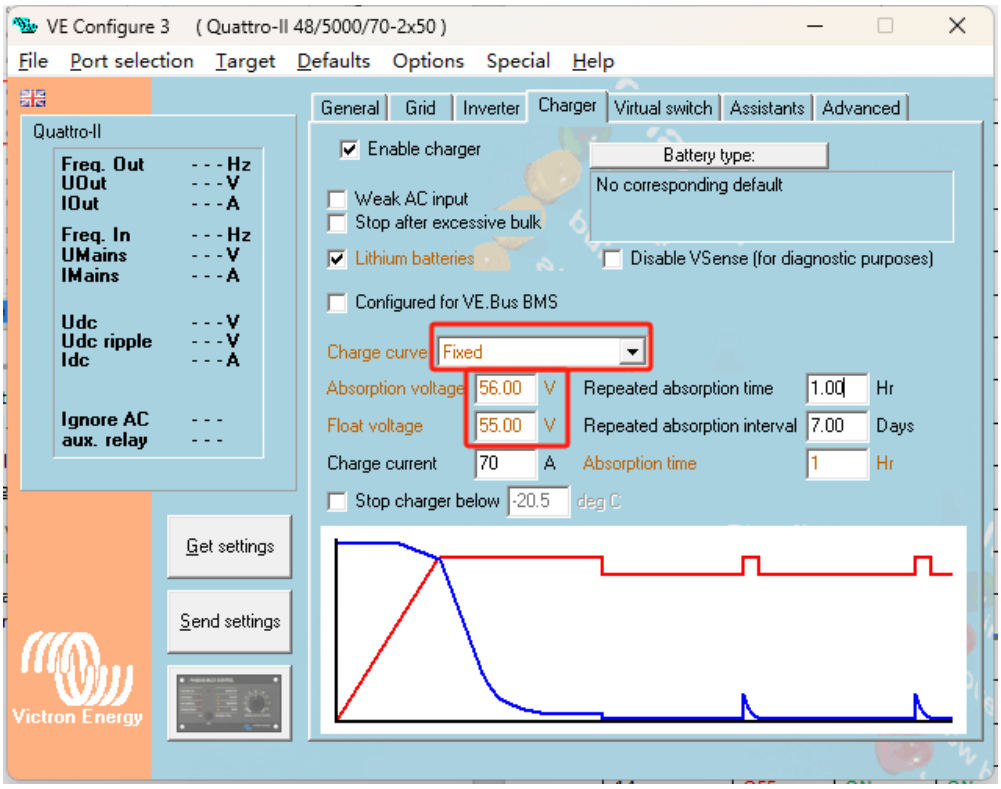


6.1 Enable charer

6.2 Check Lithium batteries



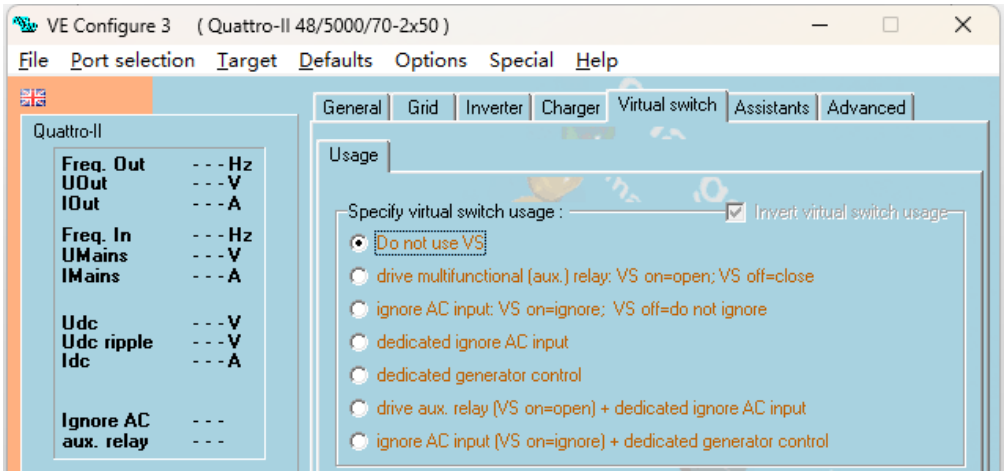
6.3 Other Settings



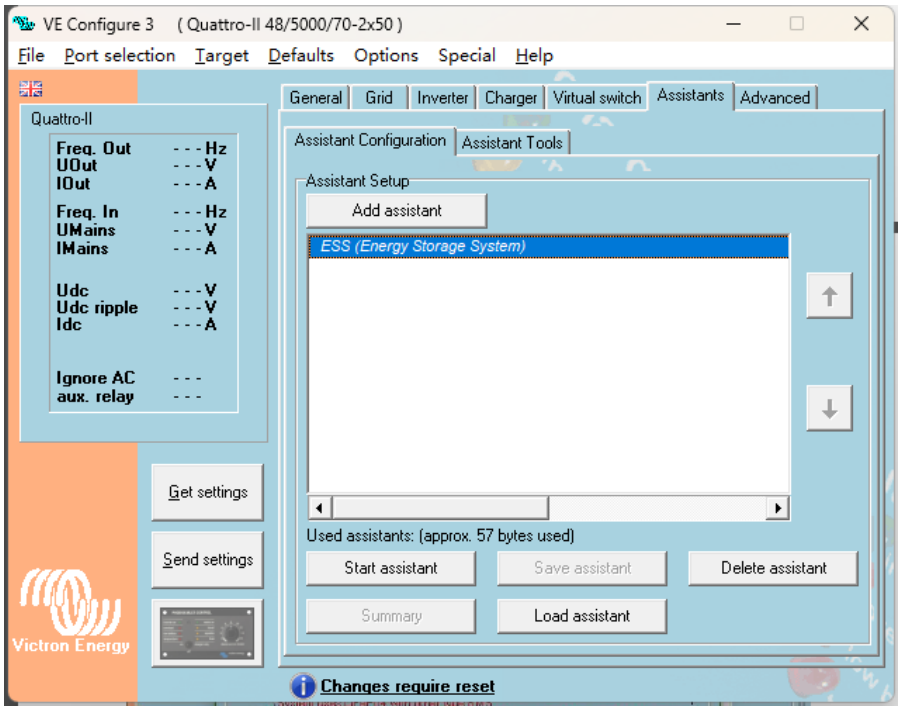
- Charge curve: Fixed
- Absorption voltage: value of Charge Voltage Limit (CVL)

- Float voltage: slightly lower than Absorption voltage

6.4 In Virtual switch tab, check Do not use VS.



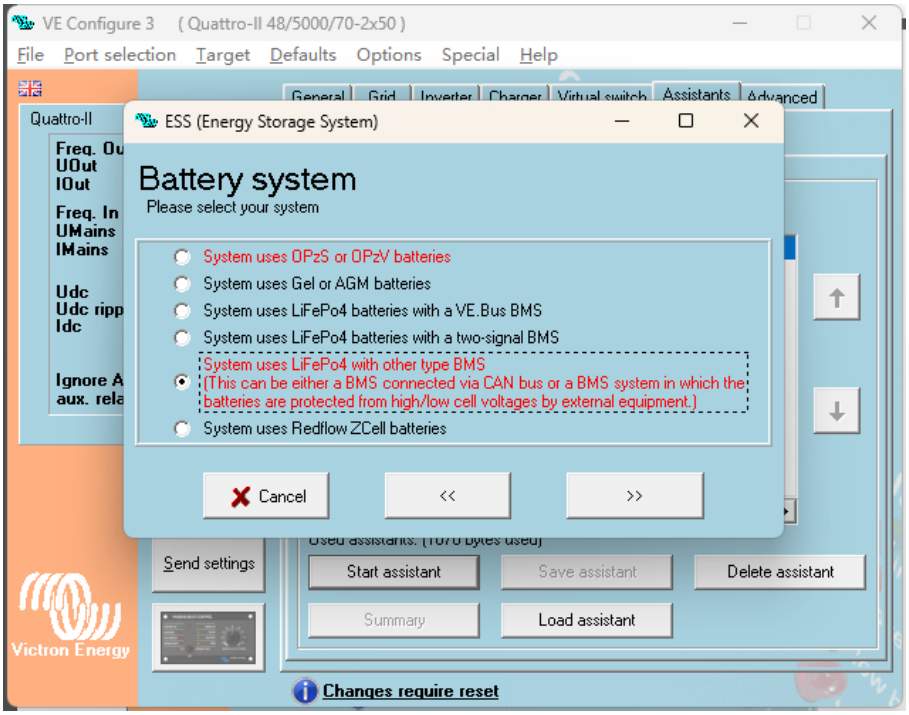
6.5 Assistant Tab 1



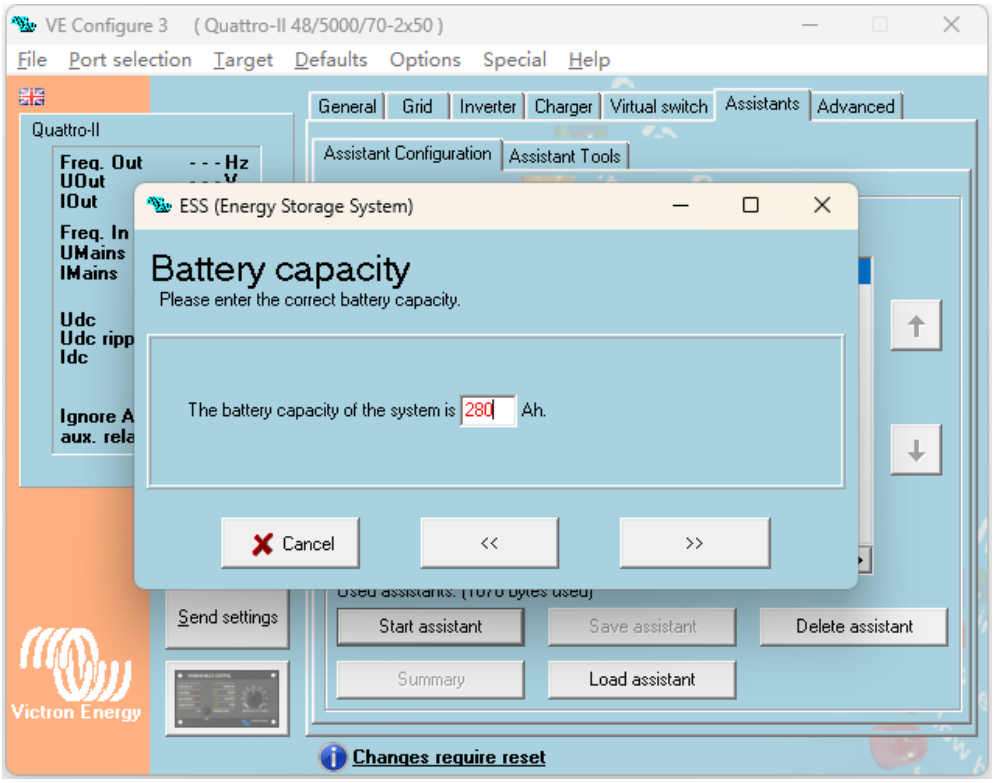
- Add assistant, choose ESS (Energy Storage System)

6.6 Assistant Tab 2

- Click Start assistant, choose 5th option.

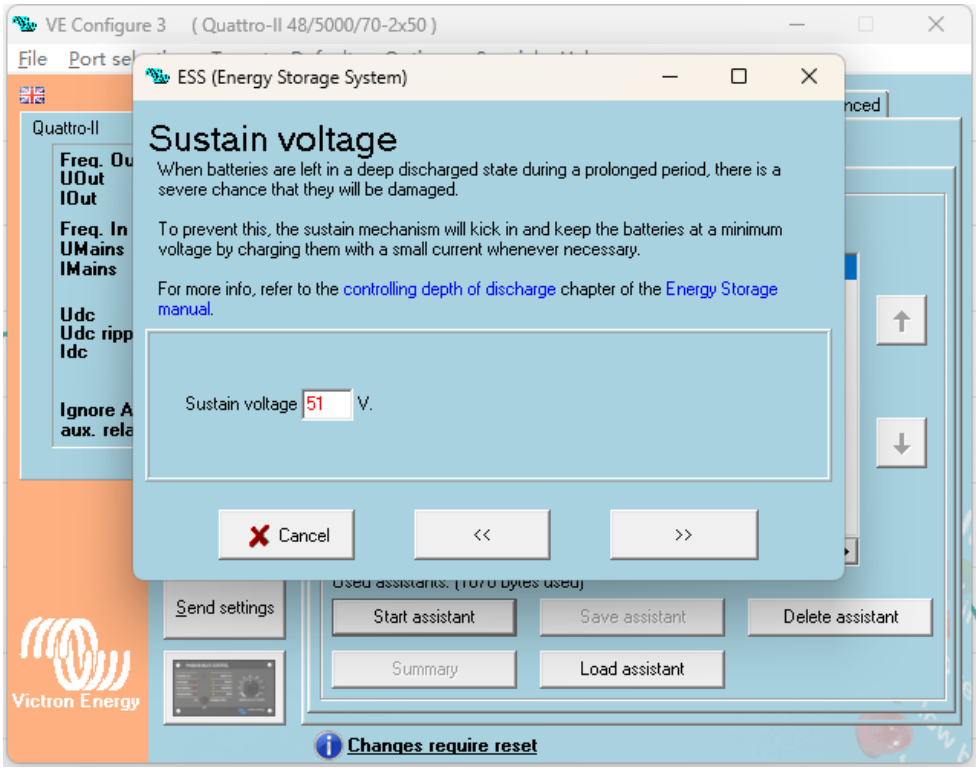


- Input total capacity of battery system.

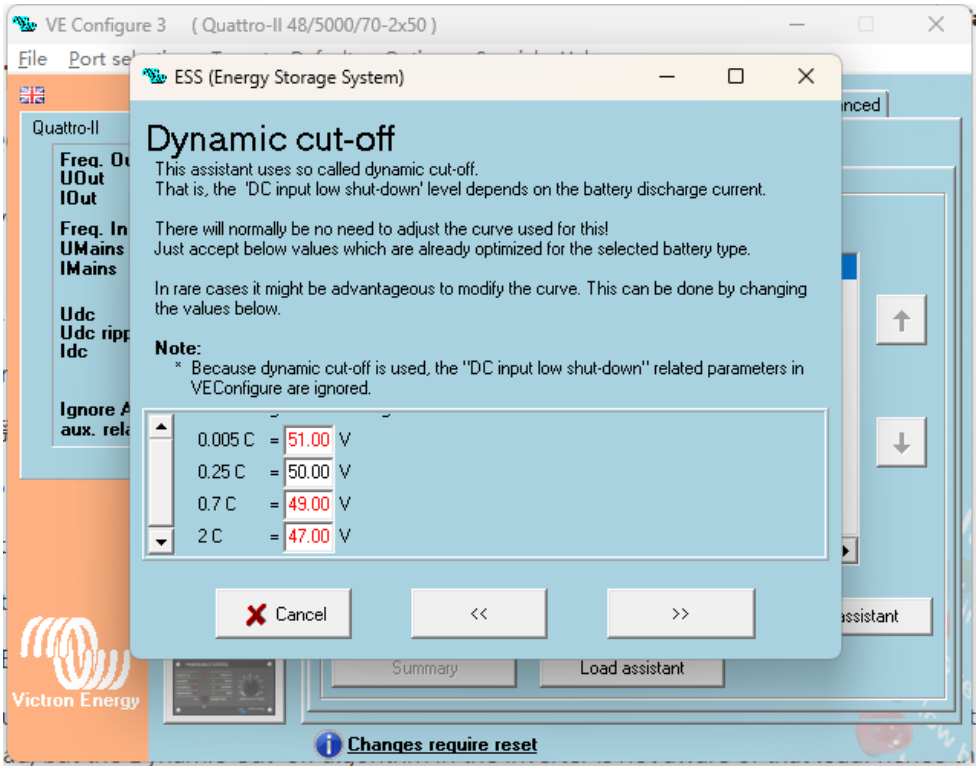


- Choose Do not change battery type.

- Set Sustain voltage 51V.



- Set Dynamic cut-off.



- Use default Restart offset.