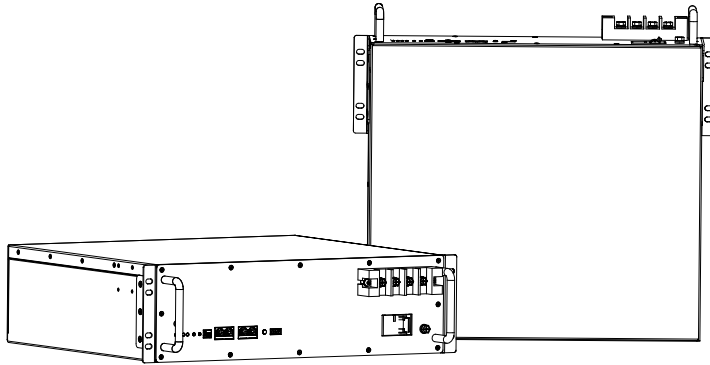


Rack Li-ion Battery--MUST--Setup

User's Guide

Rev 1.1
7-05-2023



Battery and MUST Setup

Check List:

51.2V100Ah Rack Li-ion Battery
Power cable
Communication cable
MUST 5.2kW inverter

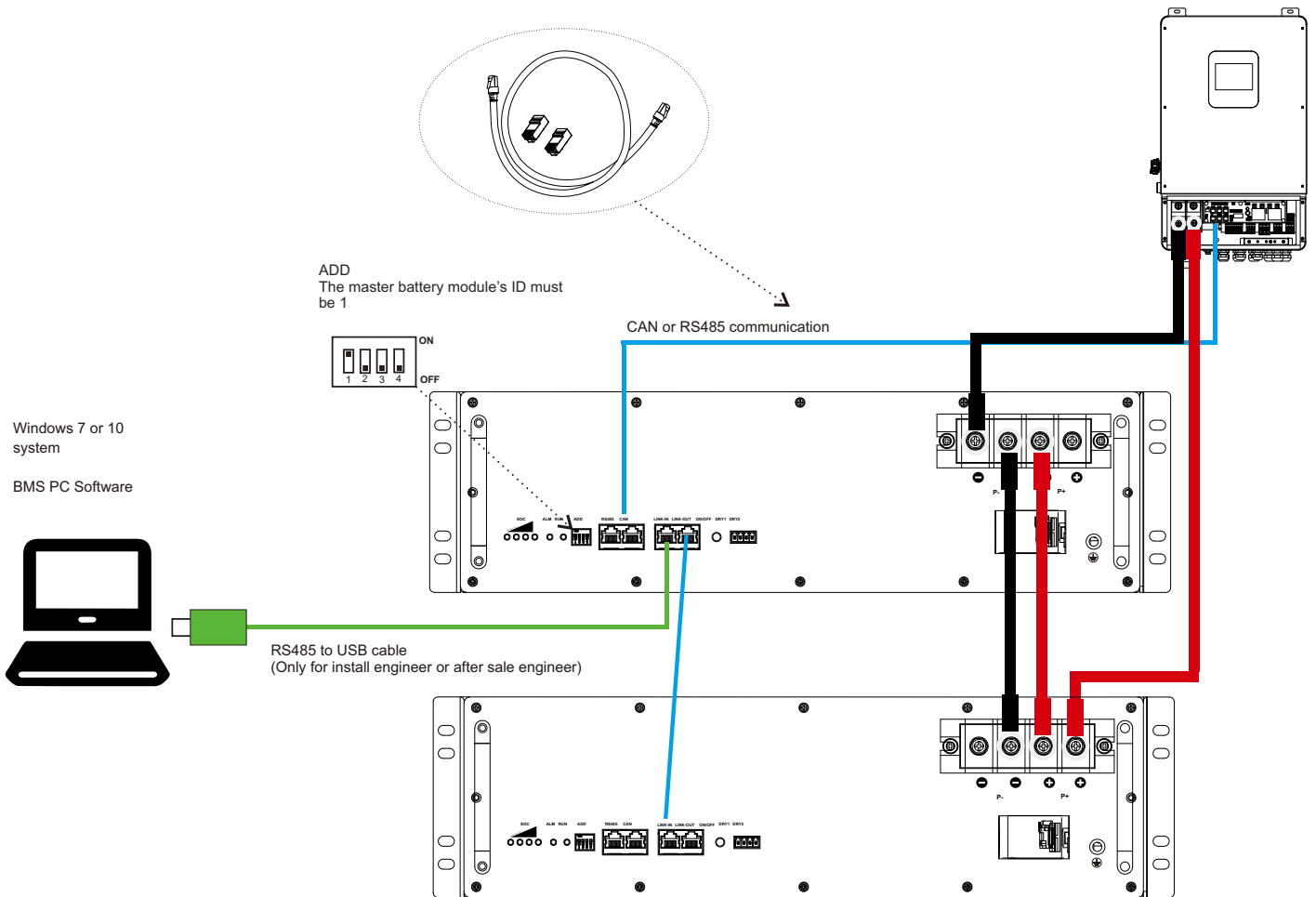
Step 1 : Cable connect in inverter

Keep both inverter and battery completely off.

Connect power cable and comm cable to inverter first.

Note: CAN communication cable, make sure the definition of communication pins, inverter side is pin6 (CAN H), pin5 (CAN L) battery side is pin7 (CAN H) , pin8 (CAN L) .

System cable connection



ADD Switch



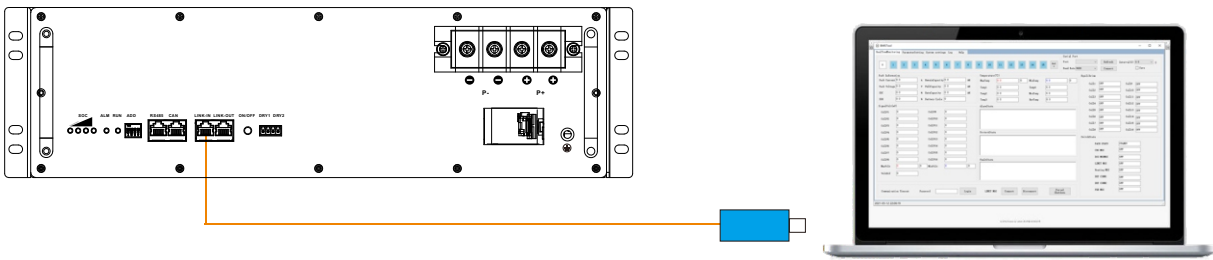
ADD	1#	1#	1#	1#	Remark
0	OFF	OFF	OFF	OFF	Pack 0, Default
1	ON	OFF	OFF	OFF	Pack 1, Master Battery
2	OFF	ON	OFF	OFF	Pack 2
3	ON	ON	OFF	OFF	Pack 3
4	OFF	OFF	ON	OFF	Pack 4
5	ON	OFF	ON	OFF	Pack 5
6	OFF	ON	ON	OFF	Pack 6
7	ON	ON	ON	OFF	Pack 7
8	OFF	OFF	OFF	ON	Pack 8
9	ON	OFF	OFF	ON	Pack 9
10	OFF	ON	OFF	ON	Pack 10
11	ON	ON	OFF	ON	Pack 11
12	OFF	OFF	ON	ON	Pack 12
13	ON	OFF	ON	ON	Pack 13
14	OFF	ON	ON	ON	Pack 14
15	ON	ON	ON	ON	Pack 15

Step2 : BMS PC Software Operation

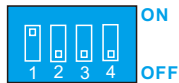
1. Download BMS PC software and Unzip to a local folder.

http://120.27.63.138:8181/docs/rack_48v/software

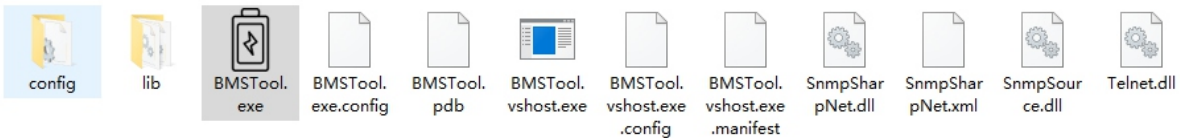
2. Connect battery LINK-IN port to computer by RS485 to USB equipment:



3. Check the battery ADD and make sure the ID=1

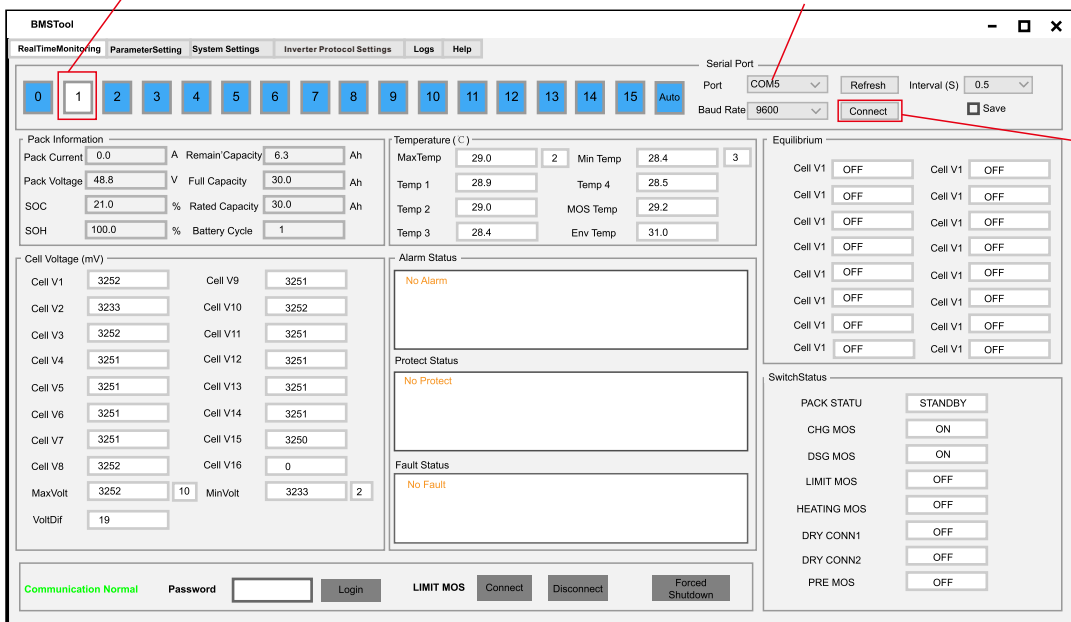


4. Double click “BMSTool.exe” to run BMS PC software.

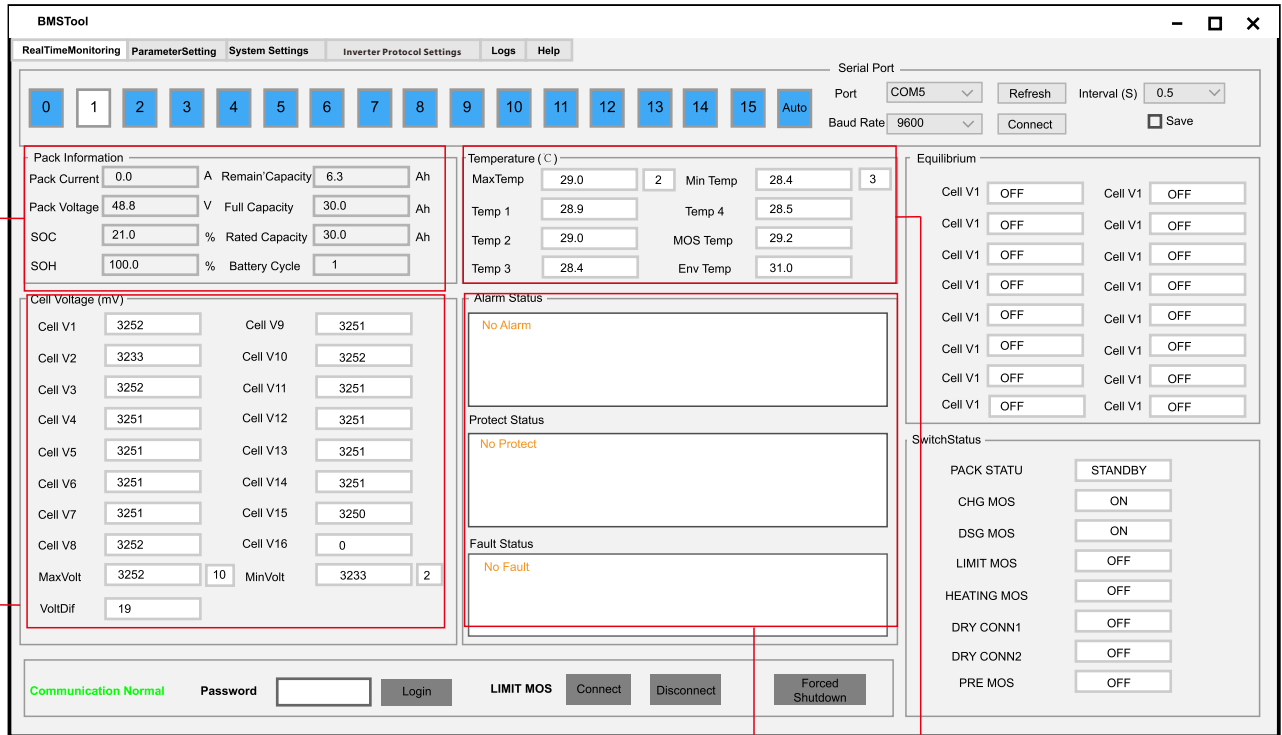


Battery ADD

If RS485 to USB device is connected well, the serial port will be listed



3. Click “Connect”, the BMS detail information will be listed



Battery information:
Total current, Total voltage,
SOC, SOH, Remain capacity,
Rated capacity, Cycle times.

Cells information:
Cell voltage

Alarm, Protection, Fault
information

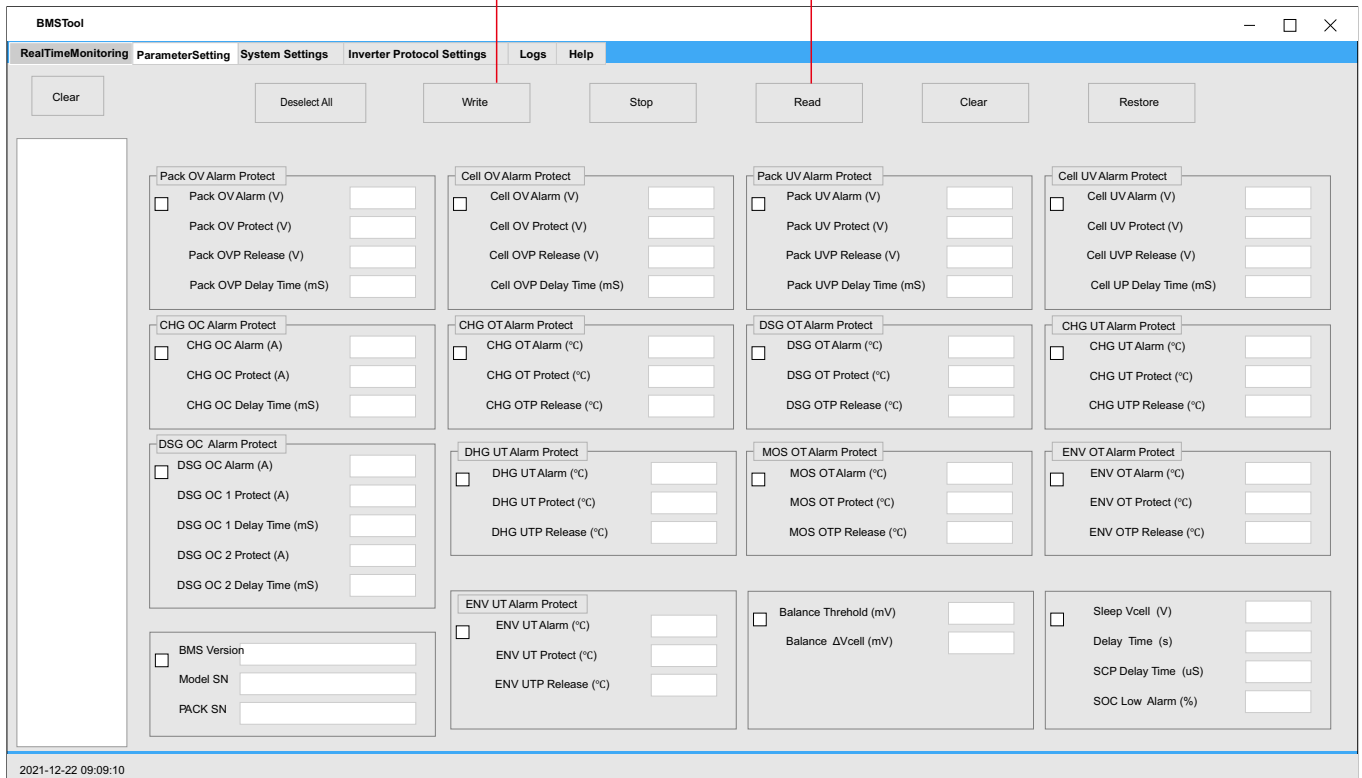
Temperature information:
Cell temperature
Environment temperature
BMS temperature (MOS)

Note:

The Parameter setting change must be carried out by a professional engineer.

Writer new
parameters

Check default BMS
parameters setting



RealTimeMonitoring ParameterSetting System settings System extension Settings Log Help

Clear

Inverter selection

RS485 Inverter

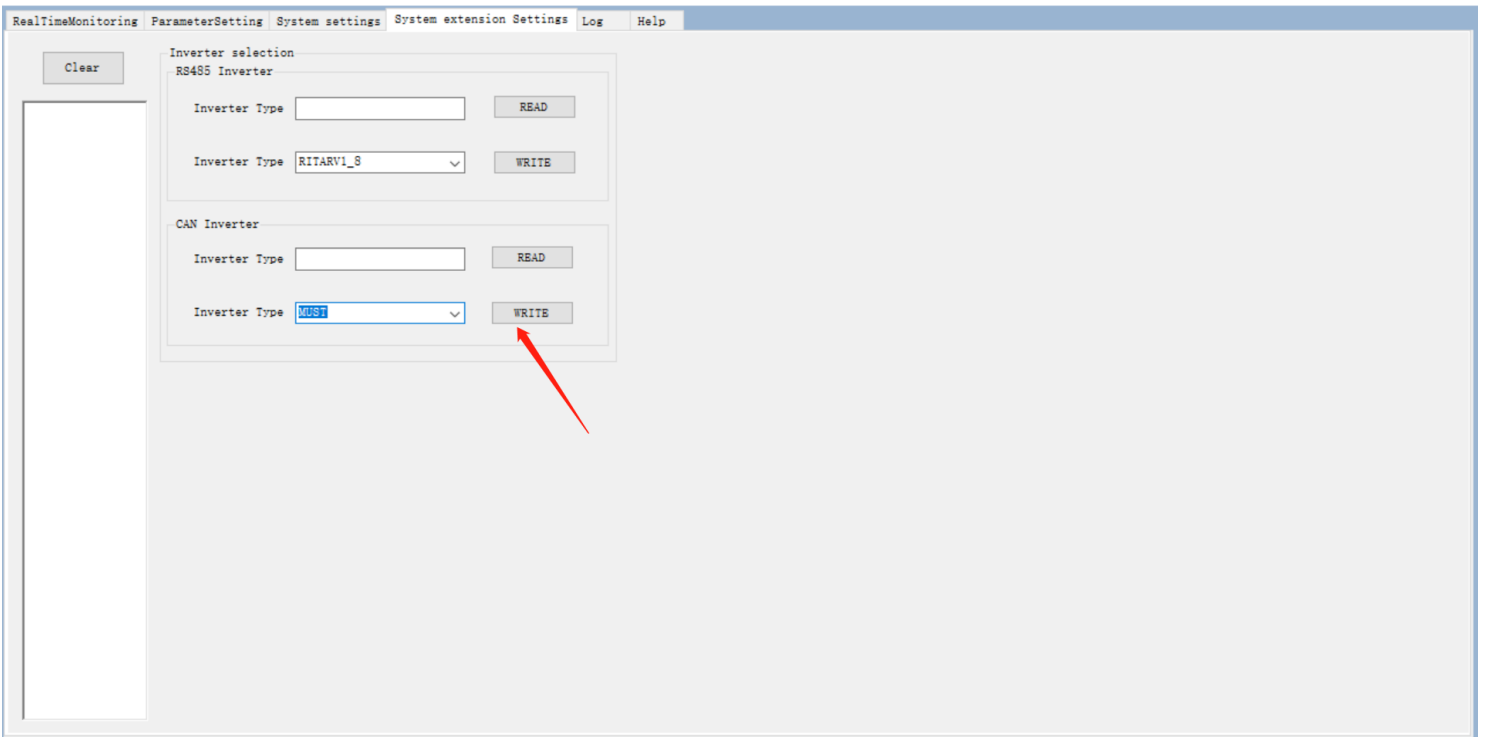
Inverter Type READ

Inverter Type R1TARV1_8 WRITE

CAN Inverter

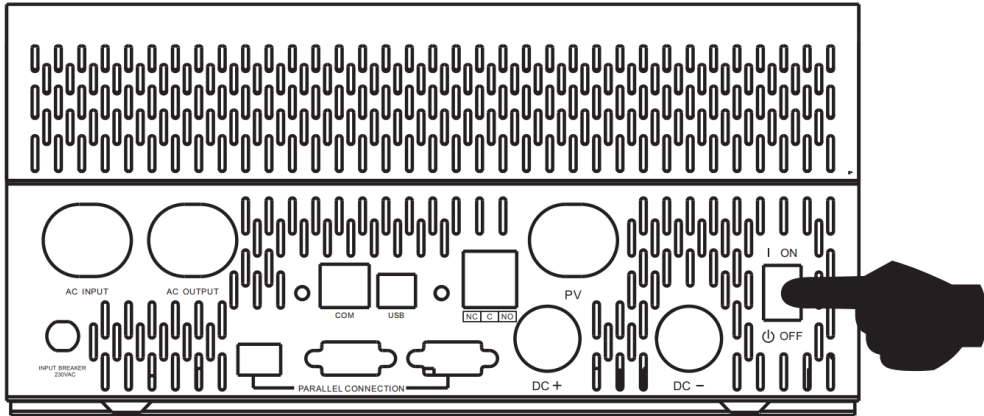
Inverter Type READ

Inverter Type MMS7 WRITE



Step 3: Inverter setup

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&.'@78'GYhh]b [

After pressing and holding "ENTER" button for 2 seconds, the unit will enter setting mode. Press "UP" or "DOWN" button to select setting programs. And then, press "ENTER" or "MENU" button to confirm the selection and exit.

Setup →% (

Battery hmdY →

@] →

14	Battery type	AGM (default)	Flooded
		[14]AGM	[14]FLD
		GEL	LEAD
		[14]GEL	[14]LEA
		Lithium Ion	User-Defined
		[14]L	[14]USE
If "User-Defined" LI is selected, battery charge voltage and low DC cut-off voltage can be set up in program 17, 18 and 19.			

After setup, you can press '9G7İ to check battery Voltage/SOC.

2.Grid

Steps:

Setup →

Grid Setup →

Limiters (choose 'Grid Sell')

And 'Time of Use'. you can set proper time on the right and choose it)

Example: set like this picture means 06:00~12:55, battery discharge to Grid until SOC is 20%; 12:55~06:00(tomorrow), Battery charge through Grid until SOC is 100%.

Step 4: You are ready to go

Step 5: Shut Down

POWEBOX

- 1 Remove all the load
- 2 Turn off DC breaker of Powerbox.
- 3 Long press 3s Reset button of the Powerbox to power off battery
- 4 Disconnect PV/Grid
- 5 Turn off the inverter power switch, shut down the inverter

Battery Parallel

- 1 Remove all the load
- 2 Turn off DC breaker between the battery and inverter.
- 3 Disconnect PV/Grid
- 4 Turn off the inverter power switch, shut down the inverter
- 5 Long press Reset button to power off the battery, from the master to the slaves one by one. Then switch off all the batteries' Power switch