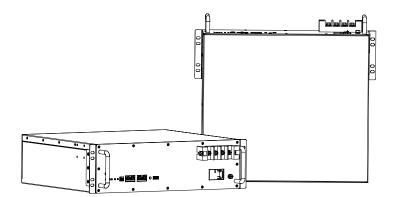
# Rack Li-ion Battery--Deye--Setup User's Guide



Rev 1.1 6-21-2023

## **Battery and Deye Setup**

#### **Check List:**

51.2V100Ah Rack Li-ion Battery
Power cable
Communication cable
Deye SUN-5K-SG01LP1-US inverter

## **Step 1 : Cable connect in inverter**

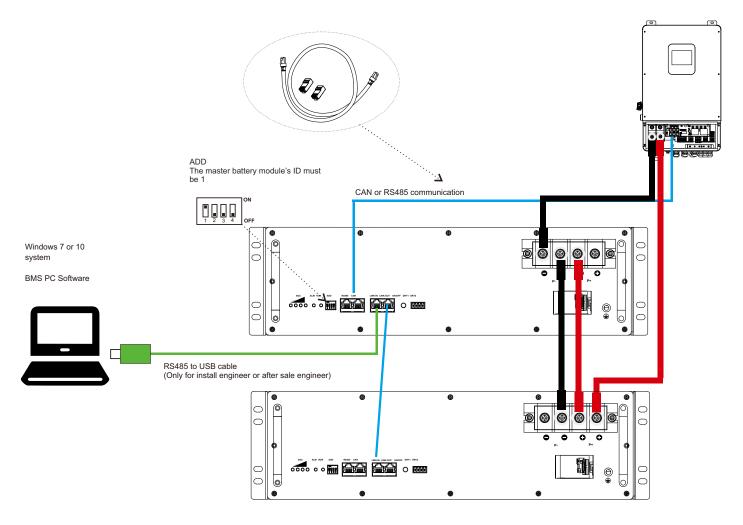
Keep both inverter and battery completely off.

Connect power cable and comm cable to inverter first.

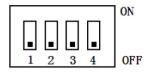
Note: Comm cable has label on, make sure the inverter side goes to battery side, inverter side to the inverter RS485 side, battery side left for later on in battery connection.

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## System cable connection



#### **ADD Switch**



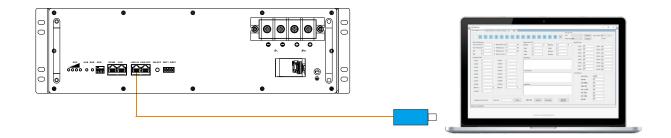
ADD	1#	1#	1#	1#	Remark
0	OFF	OFF	OFF	OFF	Pack 0, Default
1	ON	OFF	OFF	OFF	Pack 1, Master Battery
2	OFF	ON	OFF	OFF	Pack 2
3	ON	ON	OFF	OFF	Pack 3
4	OFF	OFF	ON	OFF	Pack 4
5	ON	OFF	ON	OFF	Pack 5
6	OFF	ON	ON	OFF	Pack 6
7	ON	ON	ON	OFF	Pack 7
8	OFF	OFF	OFF	ON	Pack 8
9	ON	OFF	OFF	ON	Pack 9
10	OFF	ON	OFF	ON	Pack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

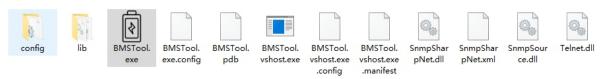
2. Connect battery LINK-IN port to computer by RS485 to USB equipment:

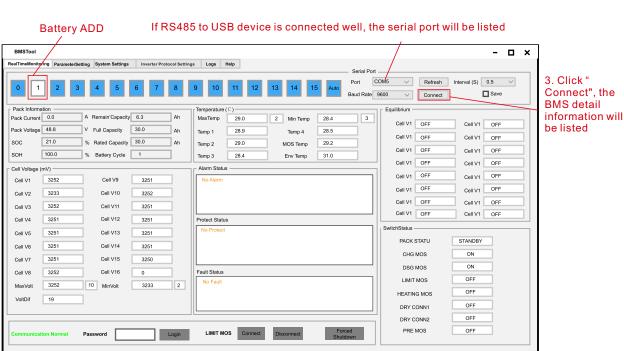


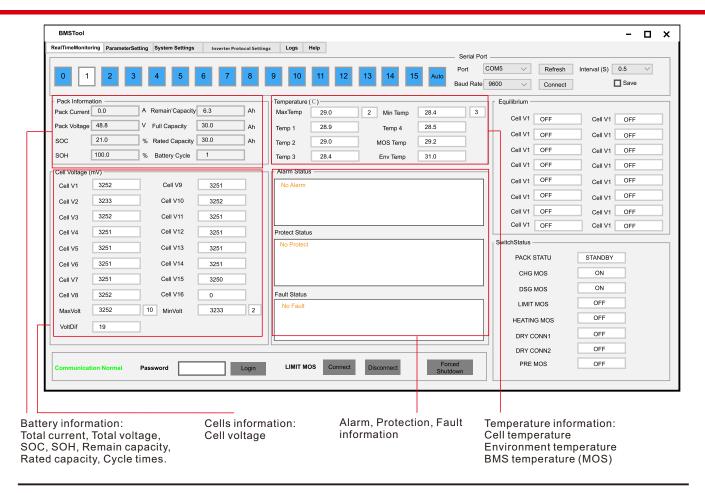
3. Check the battery ADD and make sure the ID=1



4. Double click "BMSTool.exe" to run BMS PC software.

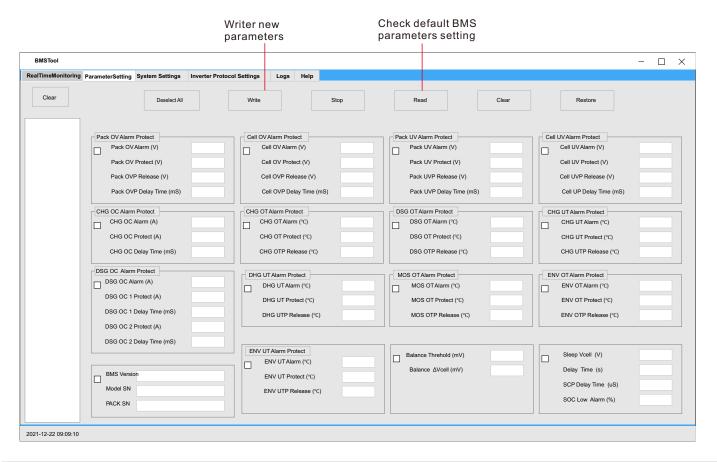


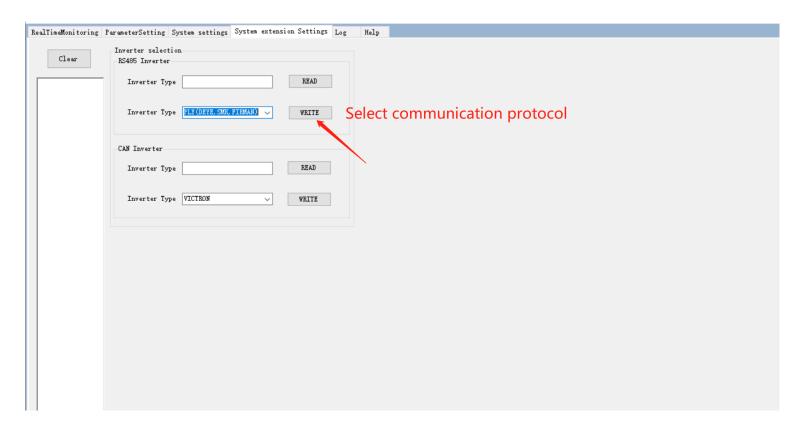




#### Note:

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





## **Step 3: Inverter setup**

Press setup in the top right corner, go in, make sure everything is properly set as below:

### 1. LI type(Lithium)

Steps:

Setup →

**Battery Setup** →

Batt (choose 'Use Batt % charge' and 'BMS Lithium Batt') →

#### **Lithium Mode**→12

**Charge** (choose 'Grid Charge', charge current is N\*50A, Float V is 53.5V, Absorption/Equalization V is 56V) →

**Discharge** (Shutdown is 15%, Low Batt is 20%)







After setup, you can press 'Li-Batt info' to check battery Voltage/Current/Max Charge/Discharge current/SOC.

2.Grid

Steps:

Setup →

Grid Setup →

Limiter (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