

PT48xxA HMI Reference Manual

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1. Introduction

This reference manual is addressed to the customers who want to monitor the operating state of PT48xxA device, it provides complete information on how to use the PT48xxA HMI software.

PT48xxA HMI is a useful software to monitor the PT48xxA, which can

- Read real-time information includes all the fault information, each battery voltage and temperature;
- Configure system parameter to easily change the operating state of PT48xxA;
- Download firmware to update the device;
- Read history information and alarm information to analyze working state.

2. Operation Environment

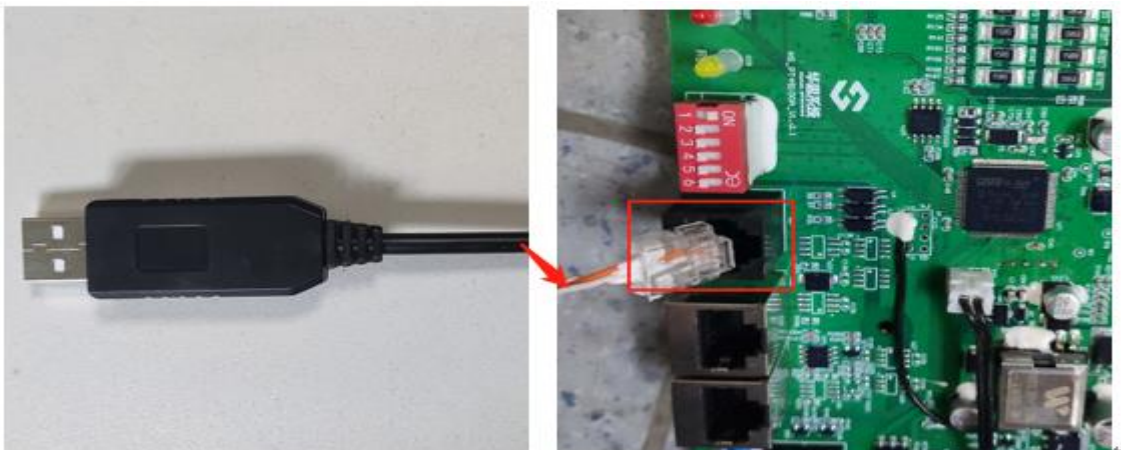
2.1 Software environment

PT48xxA HMI just support Windows system(XP, win7, win10 suggest win7 or win10), and also need .net framework 4.0.



2.2 Hardware environment

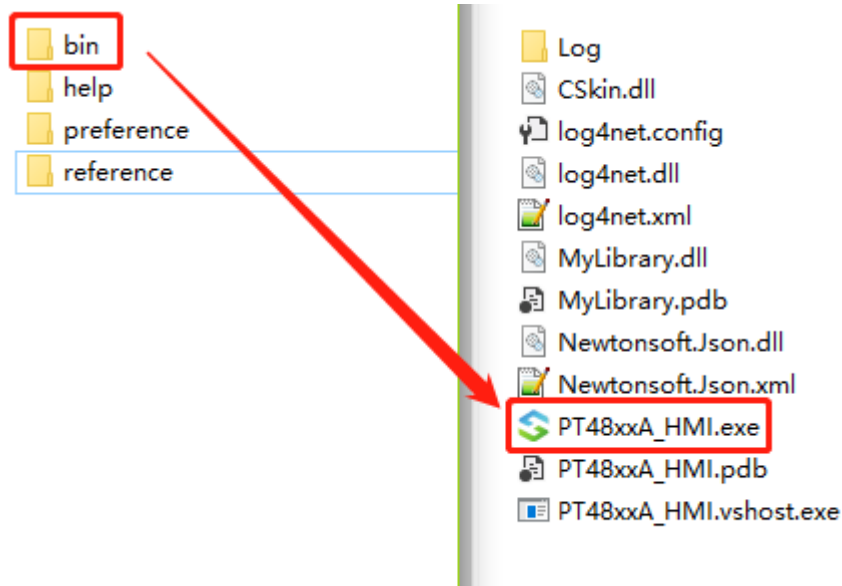
You need a RS232-TTL to connect the BMS to the computer.



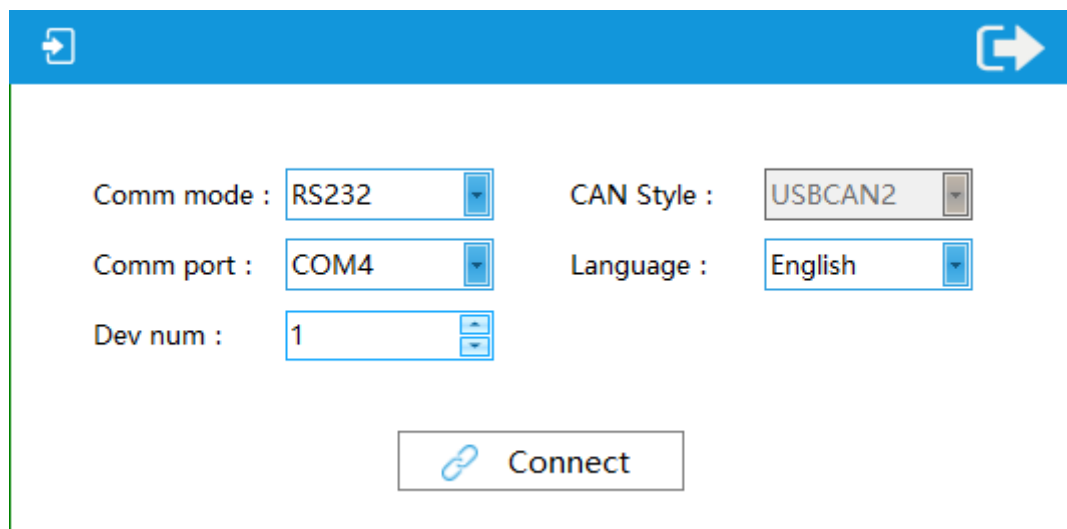
3. Basic Operation

3.1 Open software

1. Extra the portable version(PT48xxA_HMI_V1.x.x.zip), you can get four folders, then click the **PT48xxA_HMI.exe** in the bin folder to open the software.

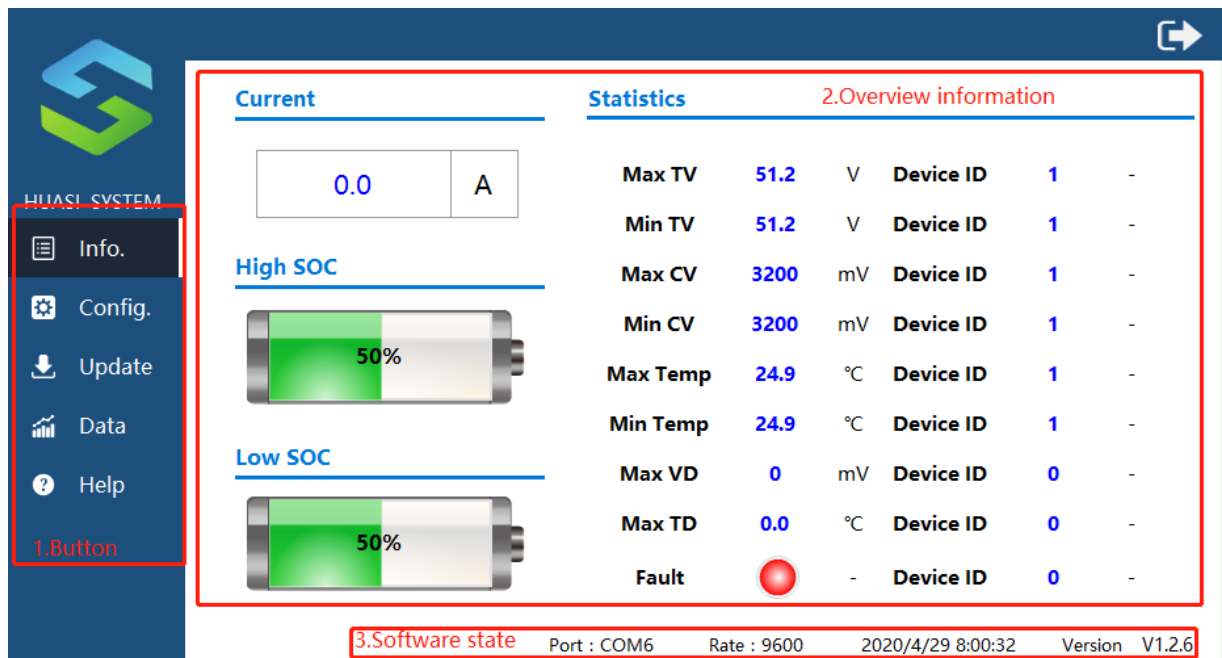


2. When the software open correctly, you can see the login interface, chose the right parameters and click **Connect Button**, you will get the main interface
 - Comm mode : chose the RS232 as the communication mode of BMS;
 - Comm port : the communication port is different on different computers, software will update the port on you computer when you pull down, then click the port connect to the BMS;
 - CAN sytle : just use in CAN communication;
 - Language : you can chose Chinese or English as the software language;
 - Dev num : input the right number of BMS in parallel

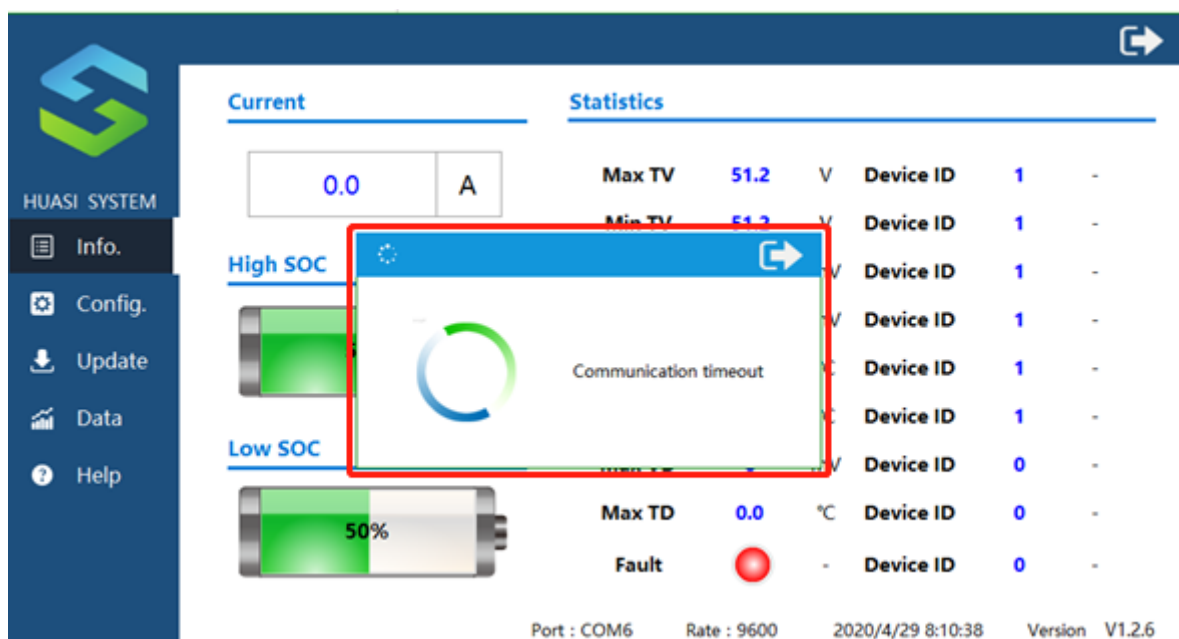


3. The main interface has three part

- Button part : it has five buttons which you can switch to different function of the software by clicking corresponding button;
- Overview information : this part show main information of all BMS in the system, you can see the system working correctly or not;
- Software state : some basic information of the software



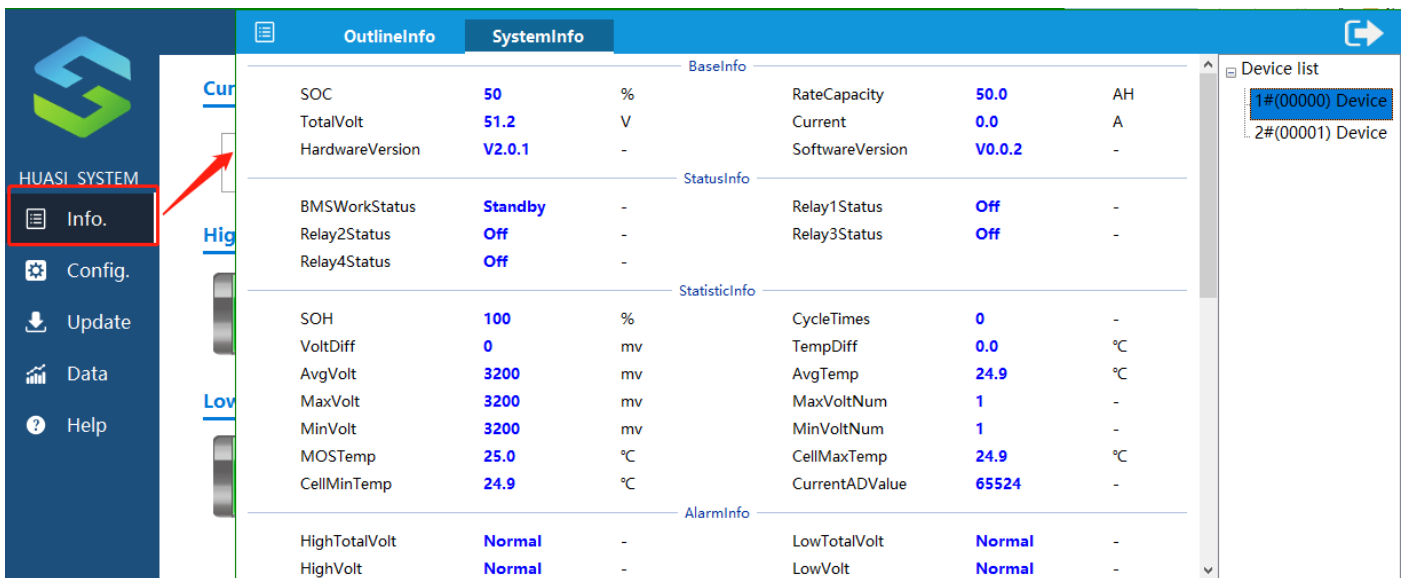
Note : if the BMS or software work incorrectly, you will see the timeout interface, you need check the BMS, RS232-TTL wire or the comm port is right or not.



3.2 Monitor realtime information

Click **Info. Button** in the main interface, you will get a new interface where all the detail real-time information in it.

- OutlineInfo : show some main information of each BMS;
- SystemInfo : show the detail real-time information of the BMS which is selected in the Device list;
- Device list : this list will show all BMS when more than 2 BMS in the system, click the device will update the corresponding real-time information;

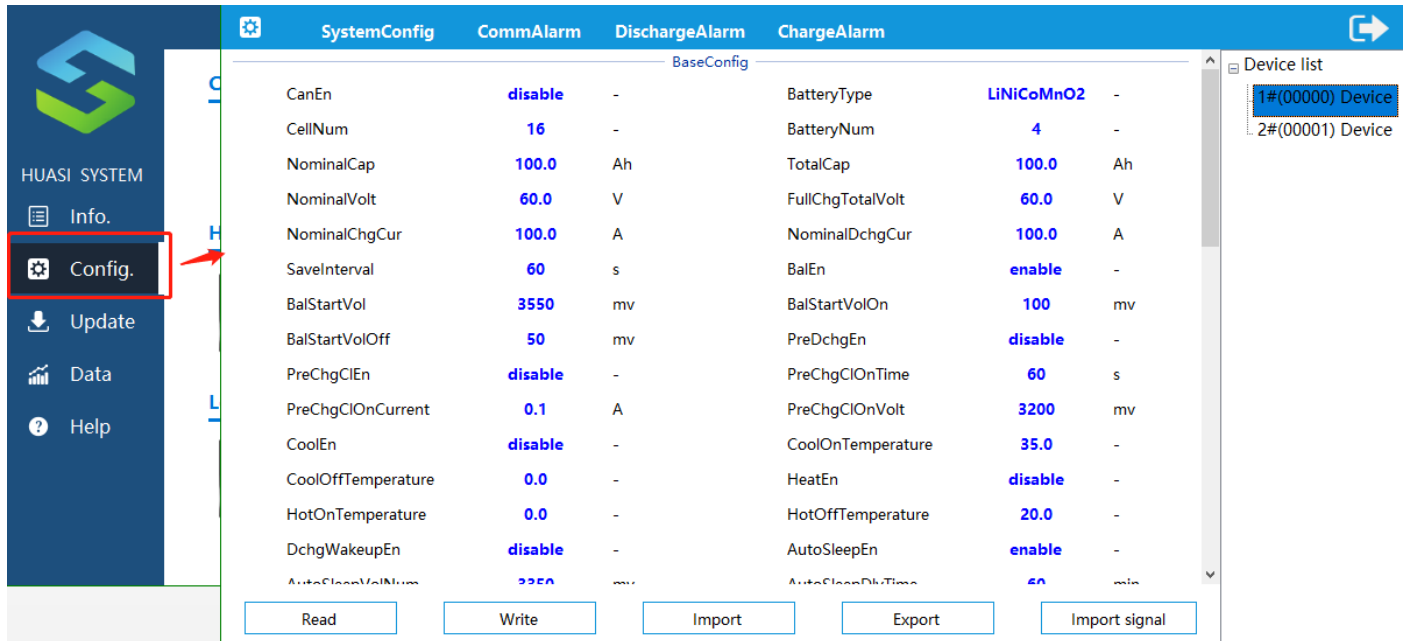


OutlineInfo		SystemInfo	
BaseInfo			
SOC	50	%	RateCapacity
TotalVolt	51.2	V	Current
HardwareVersion	V2.0.1	-	SoftwareVersion
StatusInfo			
BMSWorkStatus	Standby	-	Relay1Status
Relay2Status	Off	-	Relay3Status
Relay4Status	Off	-	
StatisticInfo			
SOH	100	%	CycleTimes
VoltDiff	0	mv	TempDiff
AvgVolt	3200	mv	AvgTemp
MaxVolt	3200	mv	MaxVoltNum
MinVolt	3200	mv	MinVoltNum
MOSTemp	25.0	°C	CellMaxTemp
CellMinTemp	24.9	°C	CurrentADValue
AlarmInfo			
HighTotalVolt	Normal	-	LowTotalVolt
HighVolt	Normal	-	LowVolt

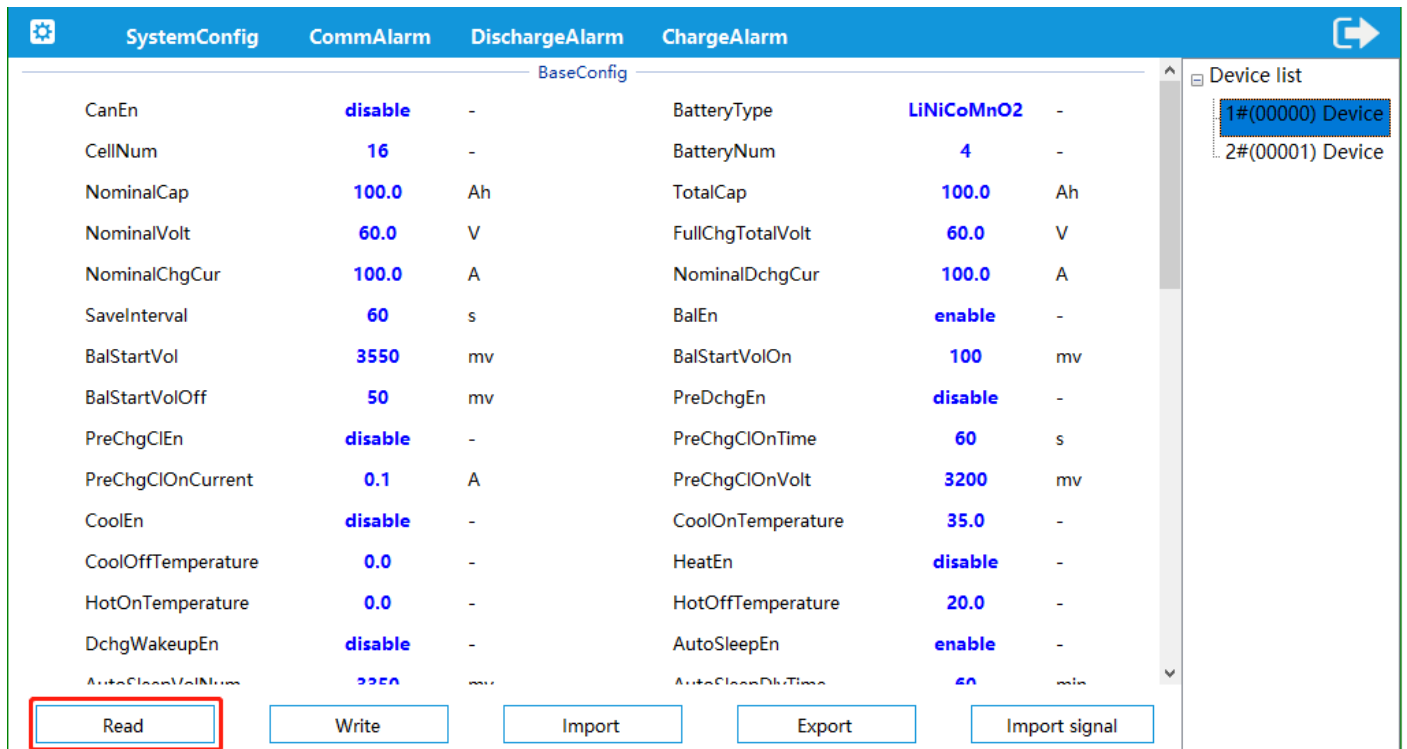
Device list
 1#(00000) Device
 2#(00001) Device

3.3 Configure parameter

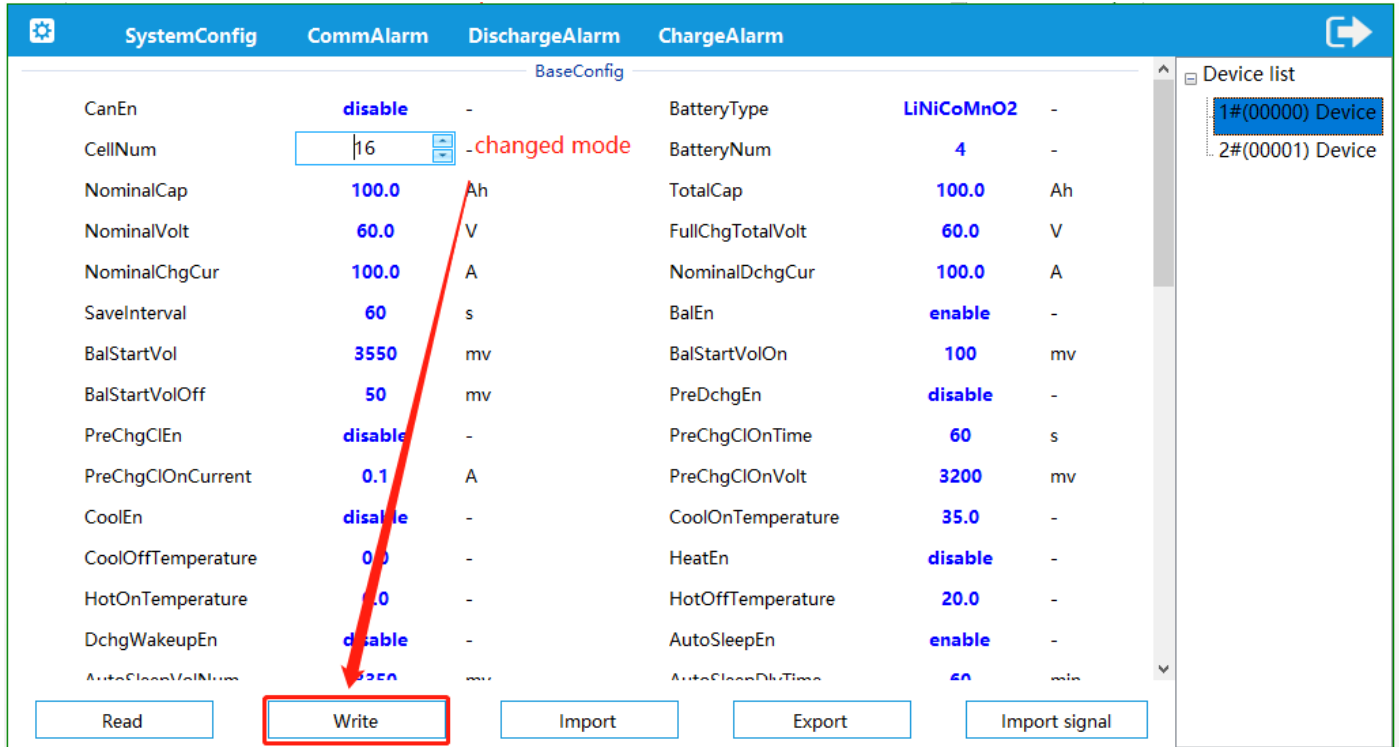
1. Click **Config. Button** in the main interface, you will get a new interface where all the configure parameter in it, just like the info. Interface.



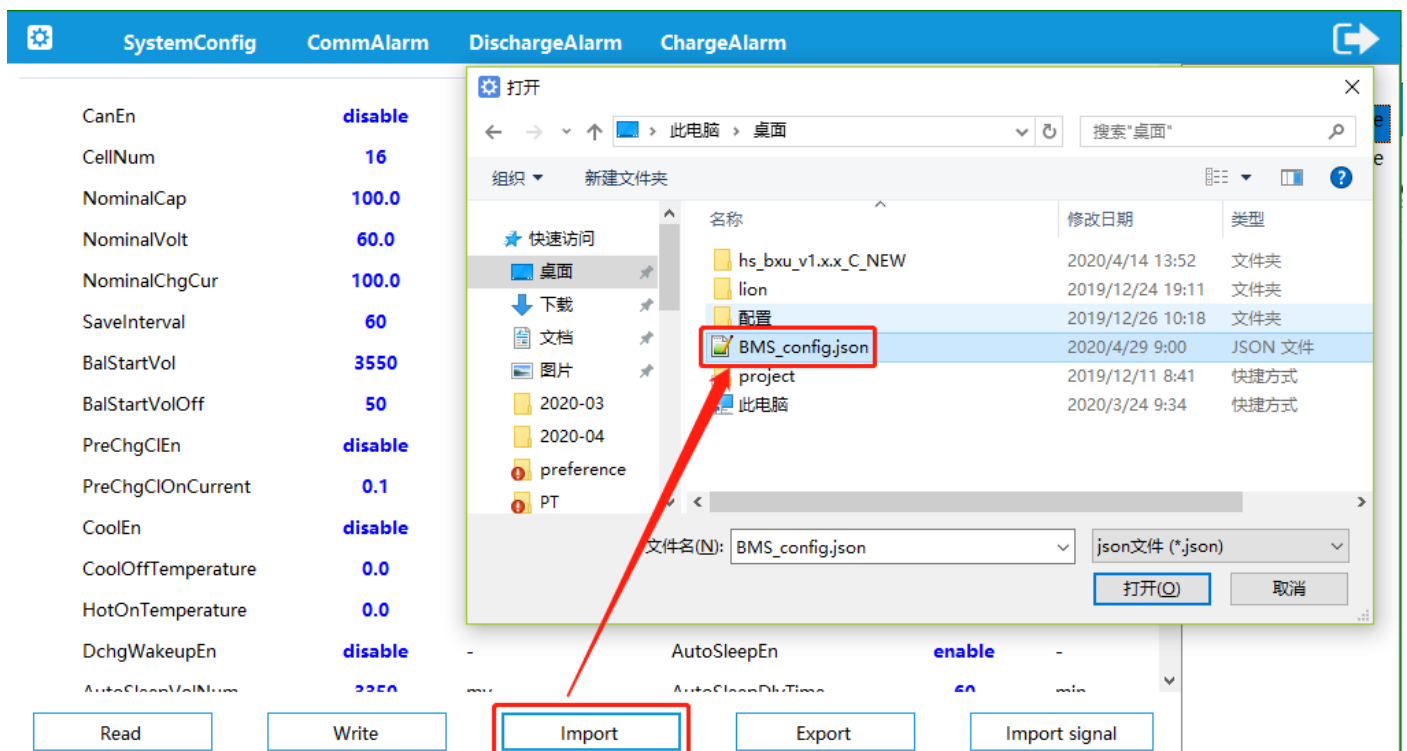
2. **Read parameter** : click **Read Button** ,after seconds the software will get the BMS parameter.



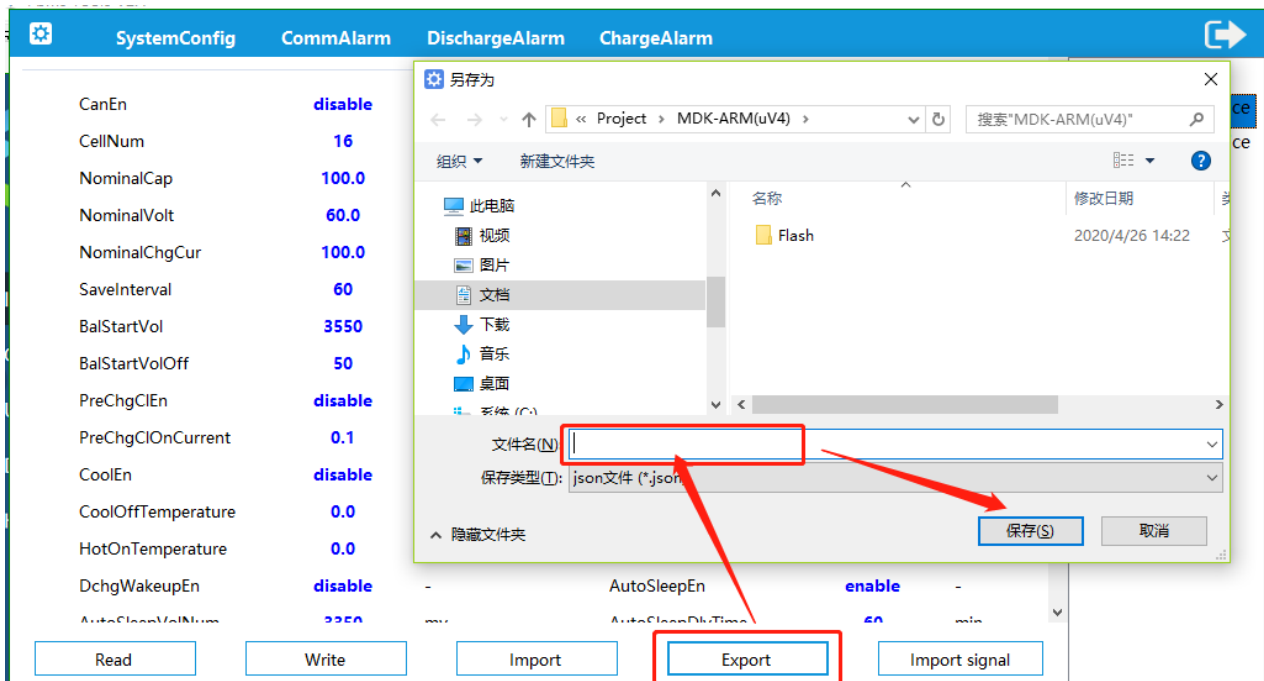
3. **Write parameter** : move the mouse on the value you want to change, and left click the mouse, the value will enter changed mode, then set the value you want. After all value change, click the **Write Button** to send the parameter to the BMS.



4. **Import parameter** : click **Import Button** and chose the config file(json),

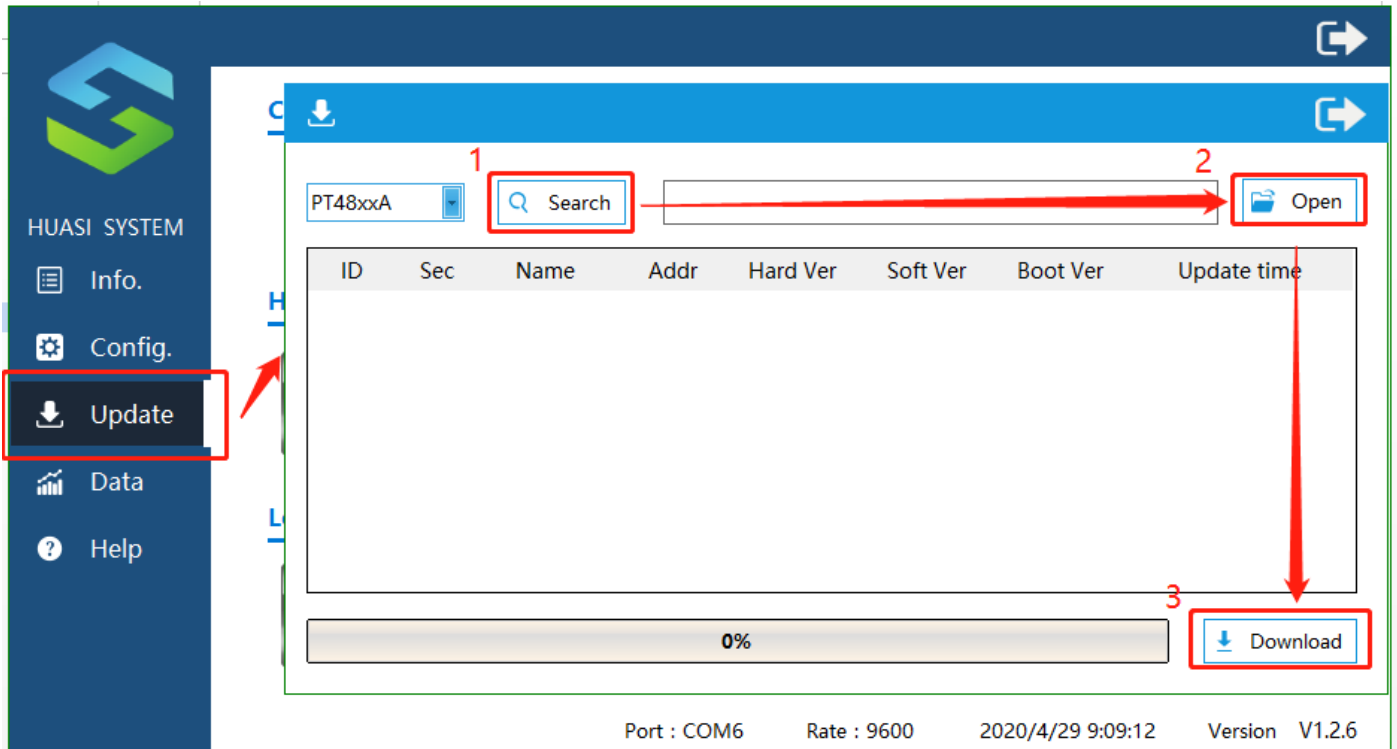


5. **Export parameter** : click **Export Button** and put document name then click **Save Button** to save the parameter document.



3.4 Download firmware

1. Click **Update Button** in the main interface, input the password(**default is 123**), then click **sign in button**
2. Download sequence : 1.Click **Search Button** ,you can get BMS information; 2. Click **Open Button** to open the firmware(.s19 file); 3. Click **Download Button** to send firmware to BMS



3.5 Read history data

1. Click **Data Button** in the main interface, you will get the data interface

- Start Time : the start time of the history data you want to read
- End Time : the end time of the history data you want to read
- File Type : the type of the history data include alarm, config and detail
- Read Button : read the data from BMS
- ... Button : open the folder where save the data file
- Erase Button : erase the data in BMS

