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Operating Instructions

ADJUSTING HEAT PARAMETERS

Via the software program
modify the charging low temperature protection parameters and the
opening and closing temperature values of the heating film

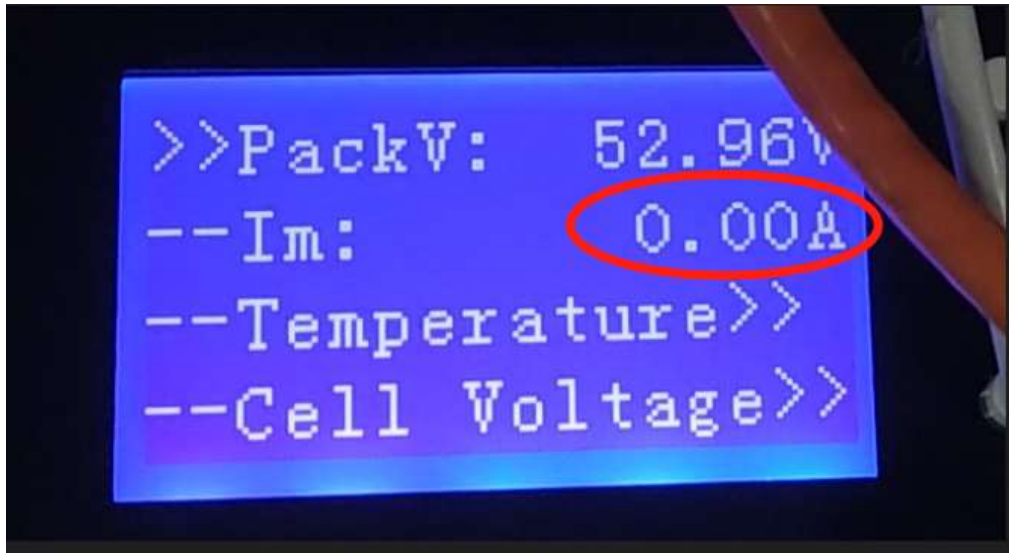
ADJUSTING HEATED LiFeP04 BATTERY



You will need to use the communication cable included with your battery.
We also include a cold weather, please remove this if needed to access the battery's communication port.

CCT LFP-51.2V-280Ah

When the temperature is below 0 degrees, the battery will not be charged, so the working current shows 0, but at this time the heating film is already working.



While on the it shows low working current when heating film is working.



Heated Batteries: OEM setting before shipment

Heater is ON: when the temperature is lower than 0°C and there is a charging current.

Heater is OFF: when the temperature is higher than 10°C.

Common Issue: I suspect that the heating elements are not working since we are not seeing any current flowing into the batteries when the chargers are applied.

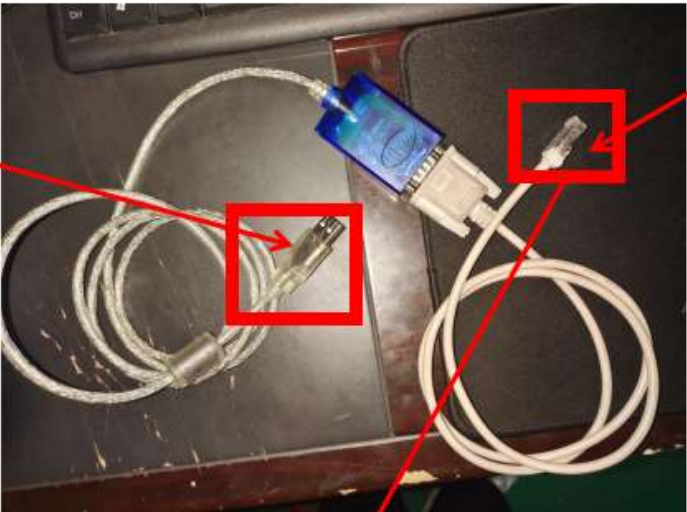
Answer: No current can be seen flowing into the battery, because the battery temperature is too low at this time, the battery is not being charged, but the heating film is already recharged/activated and working (you may also see the current on the inverter, is about 2-3A)

CCT LFP-51.2V-280Ah- Questions need to know

1. What is the state of the battery now? Has it been turned off?
2. How to charge the battery: Mains power? PV? other? Or Mains + Photovoltaic
3. Battery usage time period: For example, discharge at night and rely on photovoltaic charging during the day? Or will it be used on and off throughout the day? As well as the power of the load, the power of the photovoltaic, whether it is judged whether the electricity generated by the photovoltaic is enough? Is it enough for the load, and can the excess electricity fully charge the battery?
4. Is the battery indoors or outdoors? The local temperature situation, the temperature in winter?

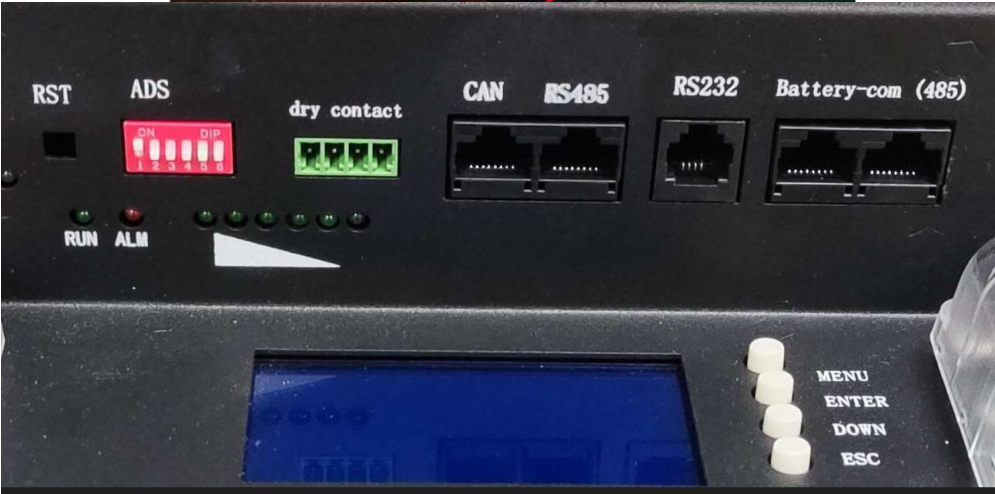
Step 01: Connect the laptop with the battery pack by the RS485 communication cable.

Connecting a laptop
USB port of the cable
is connected to laptop



Connecting the battery pack
RS485 Port

RJ45 port is connected to
RS485 port of battery



Step 02: Connect the battery and laptop, click the program and get into the below interface

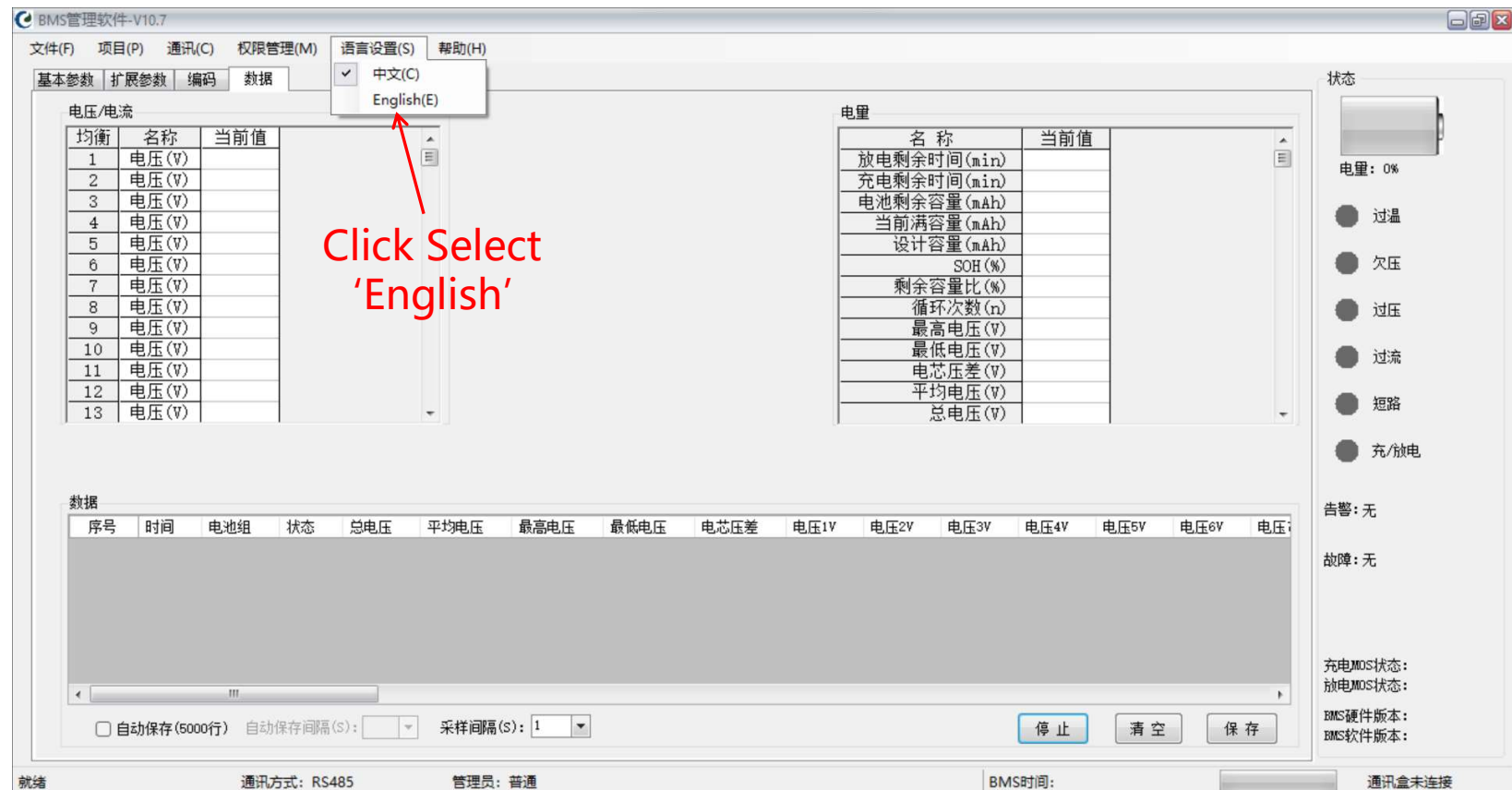


BMS-V10.7-安装包-2022.6.11

Download the program

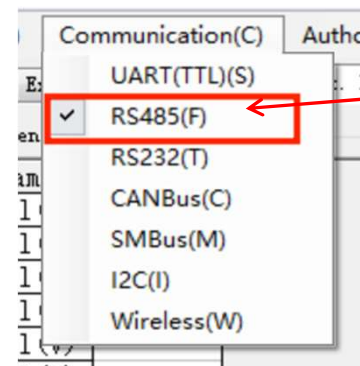
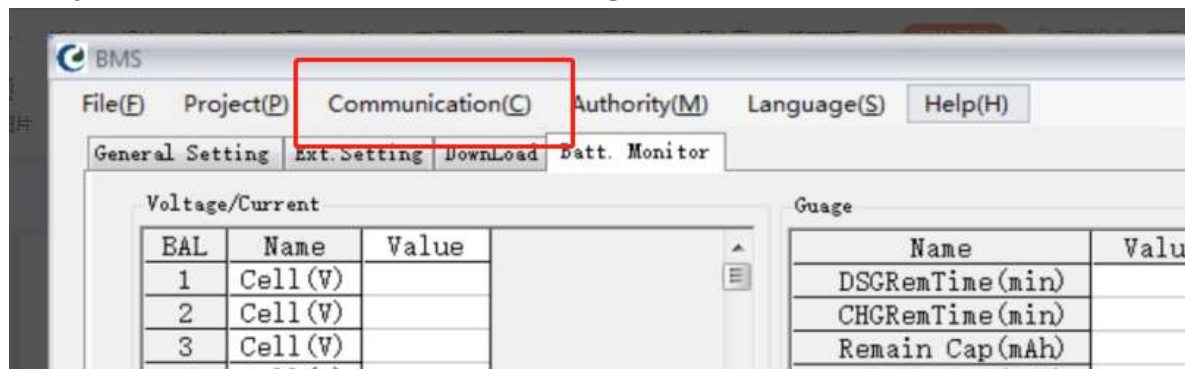


Click and get into the program



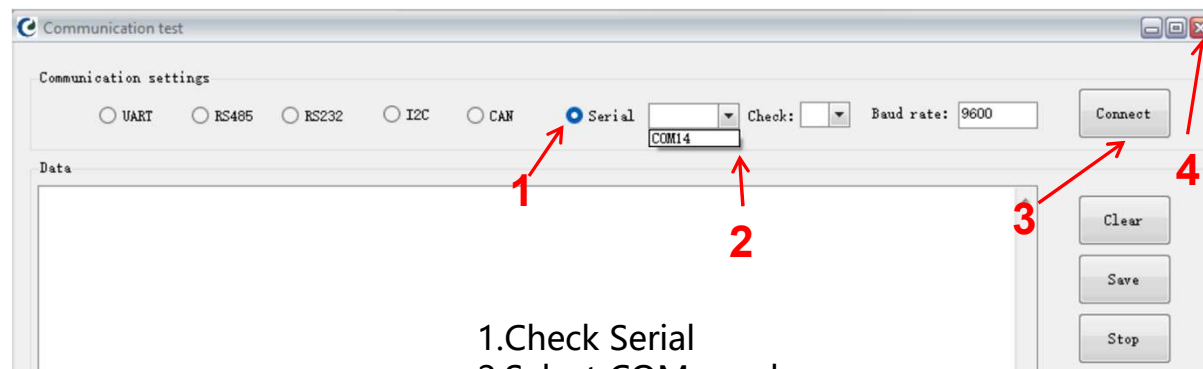
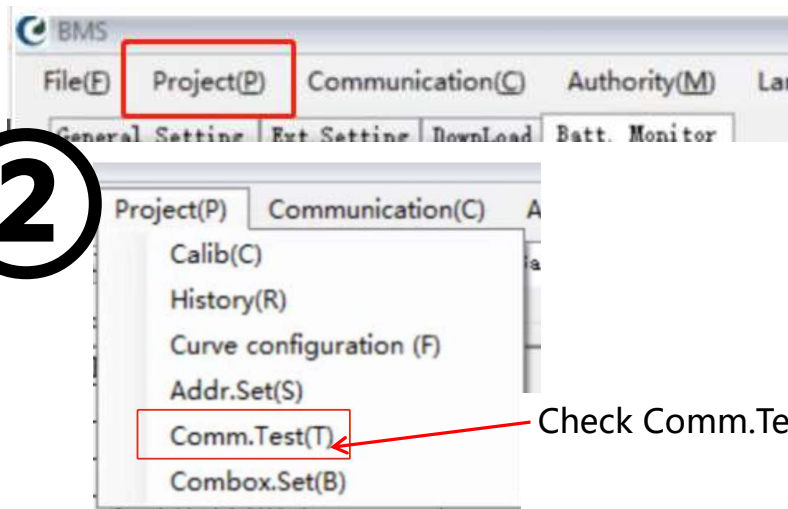
Step 03: Click the "communication(C)" key and select the communication mode, and then click the project key to select the corresponding serial port.

1



Check RS485

2



1. Check Serial
2. Select COM number
(不同电脑, 数字可能不一样)
3. Check Connect
4. 关闭此窗口

Step 04: After successful connection, return to the data page, the lower right corner shows connected, the page pops up data and the green light is on. Then click the Scan Interval(s) to select 1.

Voltage/Current

BAL	Name	Value
1	Cell (V)	3.302
2	Cell (V)	3.302
3	Cell (V)	3.303
4	Cell (V)	3.302
5	Cell (V)	3.302
6	Cell (V)	3.302
7	Cell (V)	3.303
8	Cell (V)	3.303
9	Cell (V)	3.302
10	Cell (V)	3.302
11	Cell (V)	3.302
12	Cell (V)	3.301
13	Cell (V)	3.302

Gauge

Name	Value
DSGRemTime(min)	--
CHGRemTime(min)	--
Remain Cap(mAh)	138974
Full Cap(mAh)	294937
Design Cap(mAh)	280000
SOH(%)	100
SOC(%)	46
CycleCount(n)	1
MaxVol (V)	3.303
MinVol (V)	3.301
VolDifference(V)	0.002
AverageVol (V)	3.302
PackVol (V)	52.84

Data

NO.	Time	Pack	state	TotalVol V	AverageVol V	MaxVol V	MinVol V	VolDif V	Cell_1 V	Cell_2 V	Cell_3 V	Cell_4 V
1	11/18/2022 4:43:37 PM	PACK1	Normal	52.84	3.302	3.303	3.301	0.002	3.302	3.301	3.303	3.302
2	11/18/2022 4:43:38 PM	PACK1	Normal	52.83	3.302	3.303	3.301	0.002	3.302	3.301	3.303	3.301
3	11/18/2022 4:43:39 PM	PACK1	Normal	52.84	3.302	3.303	3.301	0.002	3.302	3.302	3.303	3.301
4	11/18/2022 4:43:40 PM	PACK1	Normal	52.83	3.302	3.303	3.301	0.002	3.302	3.301	3.303	3.301
5	11/18/2022 4:43:42 PM	PACK1	Normal	52.83	3.302	3.303	3.301	0.002	3.302	3.301	3.303	3.302
6	11/18/2022 4:43:43 PM	PACK1	Normal	52.83	3.302	3.303	3.301	0.002	3.302	3.301	3.303	3.302

Status

SOC: 46%

OT

UV

OV

OC

SC

Standby

Alarm NO

Fault NO

CHG_MOSFET: ON

DSG_MOSFET: ON

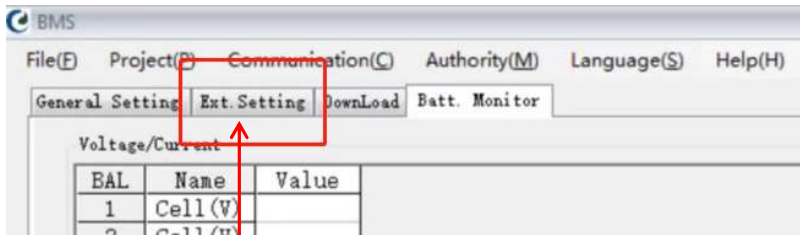
BMS HVer: _A3.0

BMS Ver: _V1.3

Ready Serial Admin: User BMS Time: 2022-11-18 16.43.3 **BMS is connected**

Show connected

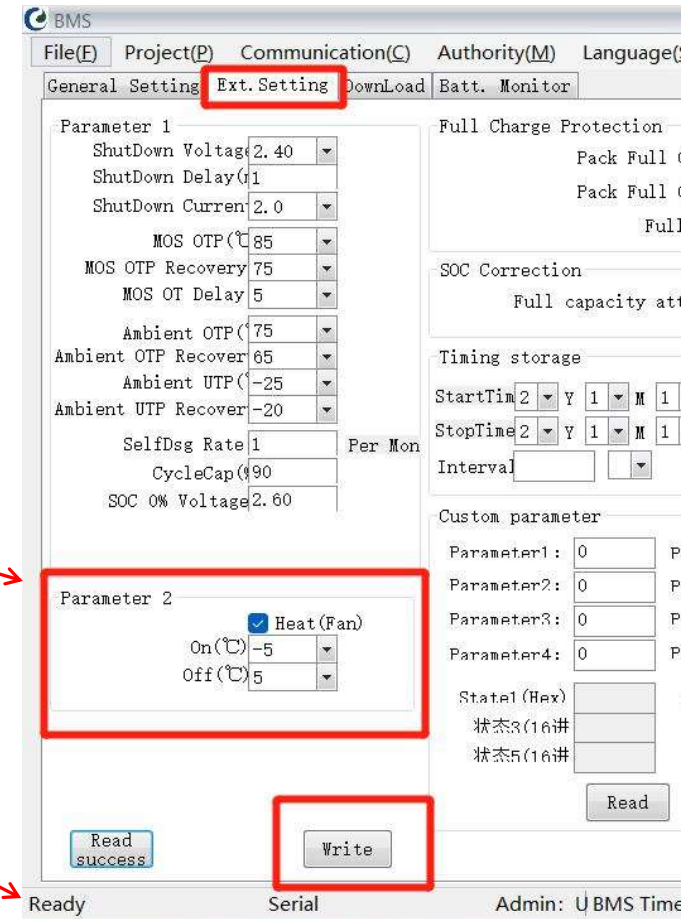
Step 05: Click Ext. Setting and find the heating function in the lower left corner to change the temperature setting. After the change is completed, click the Write button to save the settings.



Click Ext.setting to enter the function settings

Change the temperature setting and click the Write button to save the settings.
Set to - 5 °C on and 5 °C off.

After clicking the Write button, the lower left corner will prompt that the writing is successful



Step 06: the General Setting to enter the parameter setting page. Click the read key at the lower left corner to obtain the battery pack parameters. Then, find the temperature setting parameters, set them to - 5 °C for protection and 0 °C for recovery and click write key.

The image shows two screenshots of the BMS software interface. The top screenshot shows the 'General Setting' menu highlighted. The bottom screenshot shows the 'General Setting' page with the 'Read' and 'Write' buttons highlighted. A red arrow points from the 'Read' button to the temperature settings table.

General Setting Page

Parameter 1	Parameter 2
OV Threshold(3.70)	Static Balance <input checked="" type="checkbox"/> En
OV Recovery(0.05)	Balance Time(m)1
OV Delay(m)1000	Total Voltage Protec <input checked="" type="checkbox"/> En
OV Recovery Dly1	TOV Threshold(58.4)
UV Threshold(2.80)	TOV Recovery(57.0)
UV Recovery(0.05)	TOV Delay(m)1000
UV Delay(m)1000	TOV Recovery Dly1
UV Recovery Dly1	TUV Threshold(44.8)
限流开启电流(A)110	TUV Recovery(46.0)
限流开启延时(s)1	TUV Recovery Dly1
OCC2 Threshold(125)	OCC Recovery <input checked="" type="checkbox"/> Re
OCC2 Delay(m)8s	Auto Recovery Dly(1
OCD1 Threshold(150)	Auto Recovery Loc(10
OCD1 Delay(2	OCD/SC Recovery
OCD2 Threshold(250)	<input checked="" type="checkbox"/> Auto Recov <input checked="" type="checkbox"/> Re
OCD2 Delay(m)600ms	Auto Recovery Dly(1
SC Threshold(500)	Auto Recovery Loc(10
SC Delay(u)128	Charge-Current Limit
BALV Threshold(3.35)	<input checked="" type="checkbox"/> Current(A) 1
BALV Delta(m)30	Unbalanced alarm <input type="checkbox"/> Enab
	Vol Difference(0.0
	Recovery Differend(0.0

Temperature Settings Table

	Charge	Discharge
OT(°C):	65	75
OT Recovery(°C):	55	65
UT(°C):	-5	-20
UT Recovery(°C):	0	-15

Buttons: Read, Write

Text: Set them to - 5 °C for protection and 0 °C for recovery and click write key.

Text: Click the read key to obtain the battery pack parameters.



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