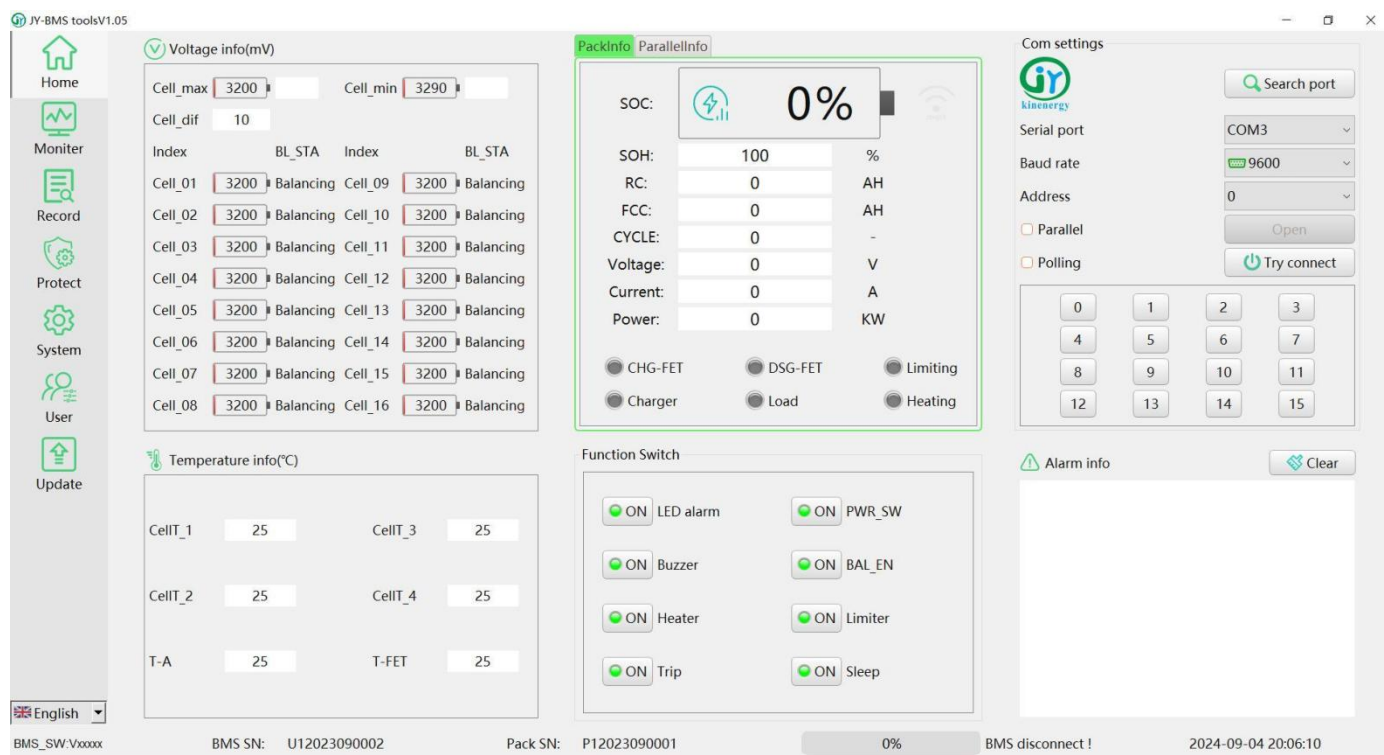


3-6.Upper machine instructions

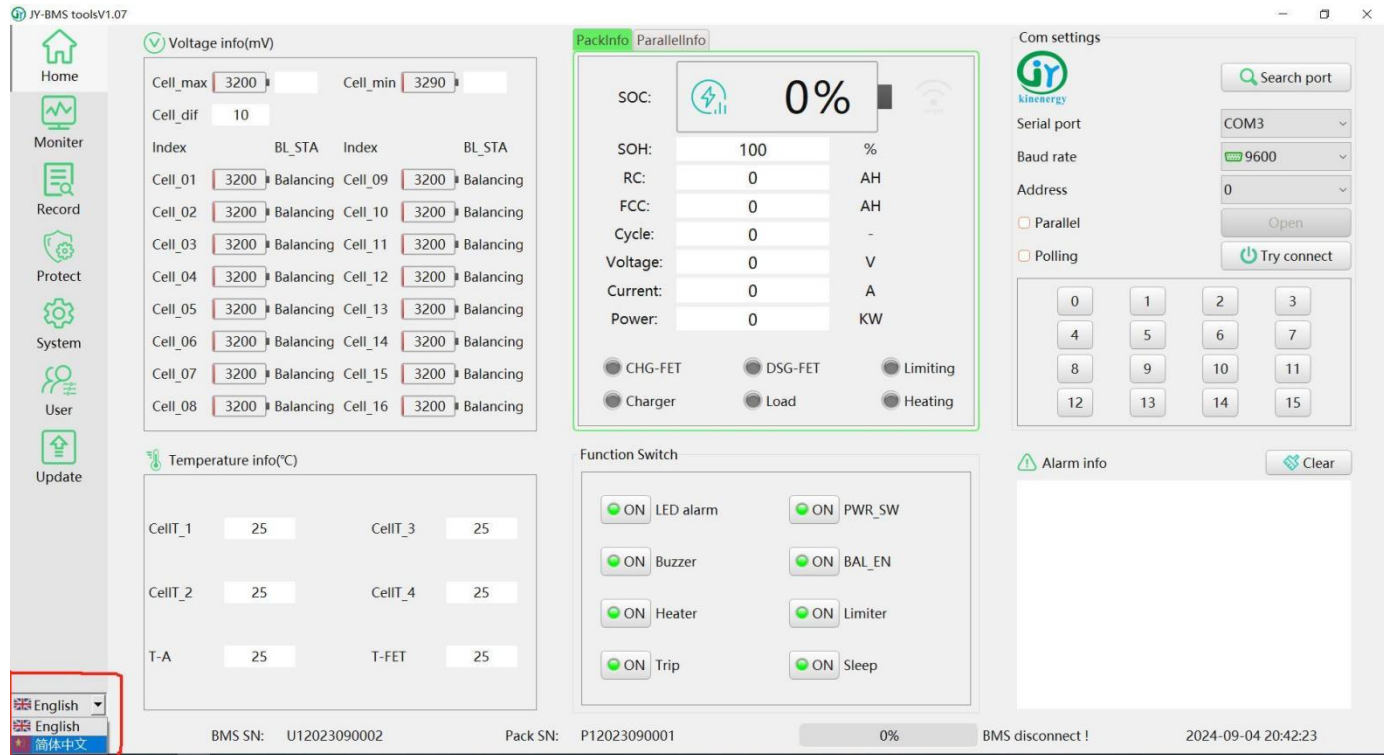
上位机说明选项

A、A.Power on the Golden YU upper computer打开金昱上位机



B.Switch between Chinese and English modes (skip for users in English mode)

切换中英模式（英文模式用户跳过）



C.Search serial port 搜索串口

Easy BMS-Tools V1.09

Home Monitor Record Protect System User Update

English

Voltage info(mV)

Cell_max 3200 Cell_min 3290

Cell_dif 10

Index	BL_STA	Index	BL_STA
Cell_01	3200 Balancing	Cell_09	3200 Balancing
Cell_02	3200 Balancing	Cell_10	3200 Balancing
Cell_03	3200 Balancing	Cell_11	3200 Balancing
Cell_04	3200 Balancing	Cell_12	3200 Balancing
Cell_05	3200 Balancing	Cell_13	3200 Balancing
Cell_06	3200 Balancing	Cell_14	3200 Balancing
Cell_07	3200 Balancing	Cell_15	3200 Balancing
Cell_08	3200 Balancing	Cell_16	3200 Balancing

CellT_2 25 CellT_4 25

T-A 25 T-FET 25

PackInfo ParallelInfo

SOC: 100%

SOH: 100 %

RC: 0 AH

FCC: 0 AH

Cycle: 0 -

Voltage: 0 V

Current: 0 A

Power: 0 KW

CHG-FET DSG-FET Limiting

Charger Load Heating

ON Heater ON Limiter

ON Trip ON Sleep

Com settings

Serial port COM18

Baud rate 9600

Address 0

Parallel

Polling

Open

Try connect

0 1 2 3

4 5 6 7

8 9 10 11

12 13 14 15

BMS_SW:Vxxxxx BMS SN: U12023090002 Pack SN: P12023090001 0% BMS disconnect! 2024-12-27 10:57:00

D.Select serial port 选择串口

Easy BMS-Tools V1.09

Home Monitor Record Protect System User Update

English

Voltage info(mV)

Cell_max 3200 Cell_min 3290

Cell_dif 10

Index	BL_STA	Index	BL_STA
Cell_01	3200 Balancing	Cell_09	3200 Balancing
Cell_02	3200 Balancing	Cell_10	3200 Balancing
Cell_03	3200 Balancing	Cell_11	3200 Balancing
Cell_04	3200 Balancing	Cell_12	3200 Balancing
Cell_05	3200 Balancing	Cell_13	3200 Balancing
Cell_06	3200 Balancing	Cell_14	3200 Balancing
Cell_07	3200 Balancing	Cell_15	3200 Balancing
Cell_08	3200 Balancing	Cell_16	3200 Balancing

CellT_2 25 CellT_4 25

T-A 25 T-FET 25

PackInfo ParallelInfo

SOC: 100%

SOH: 100 %

RC: 0 AH

FCC: 0 AH

Cycle: 0 -

Voltage: 0 V

Current: 0 A

Power: 0 KW

CHG-FET DSG-FET Limiting

Charger Load Heating

ON Heater ON Limiter

ON Trip ON Sleep

Com settings

Serial port COM18

Baud rate 9600

Address 0

Parallel

Polling

Open

Try connect

0 1 2 3

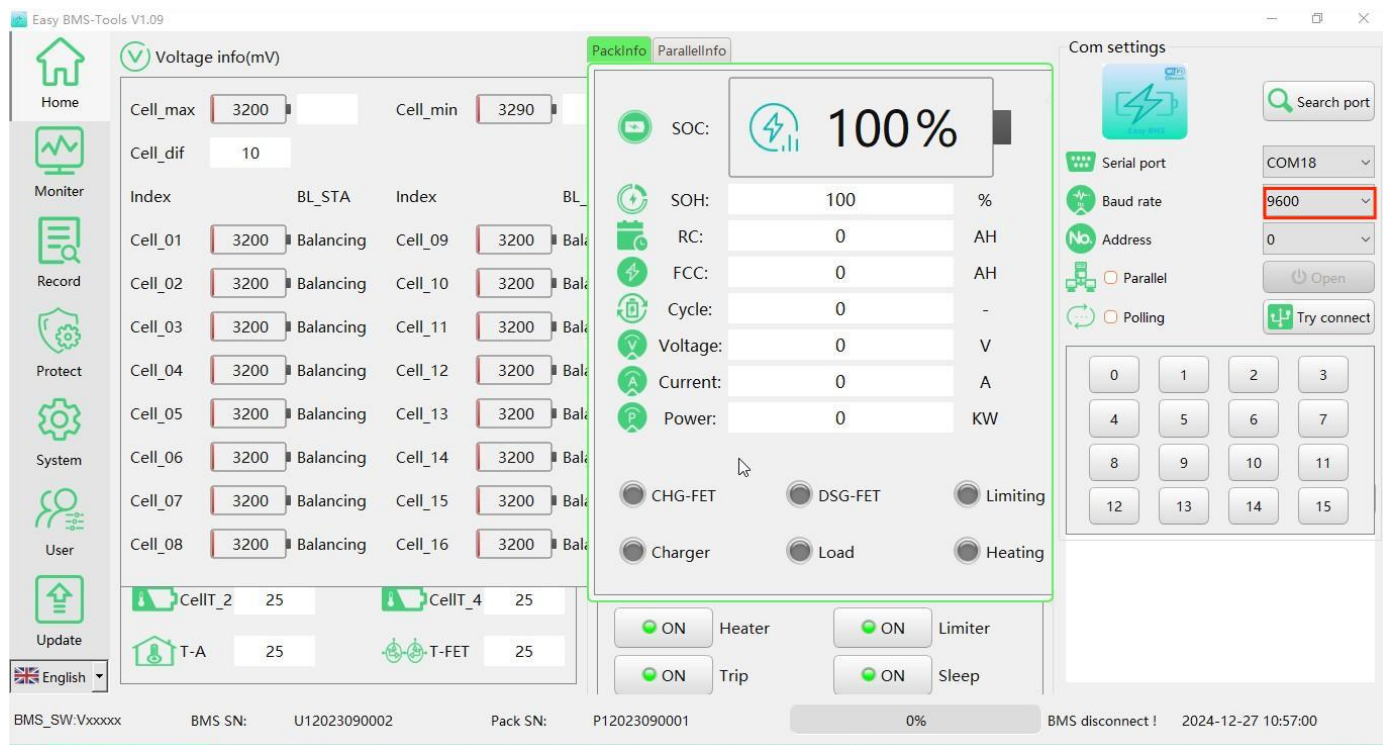
4 5 6 7

8 9 10 11

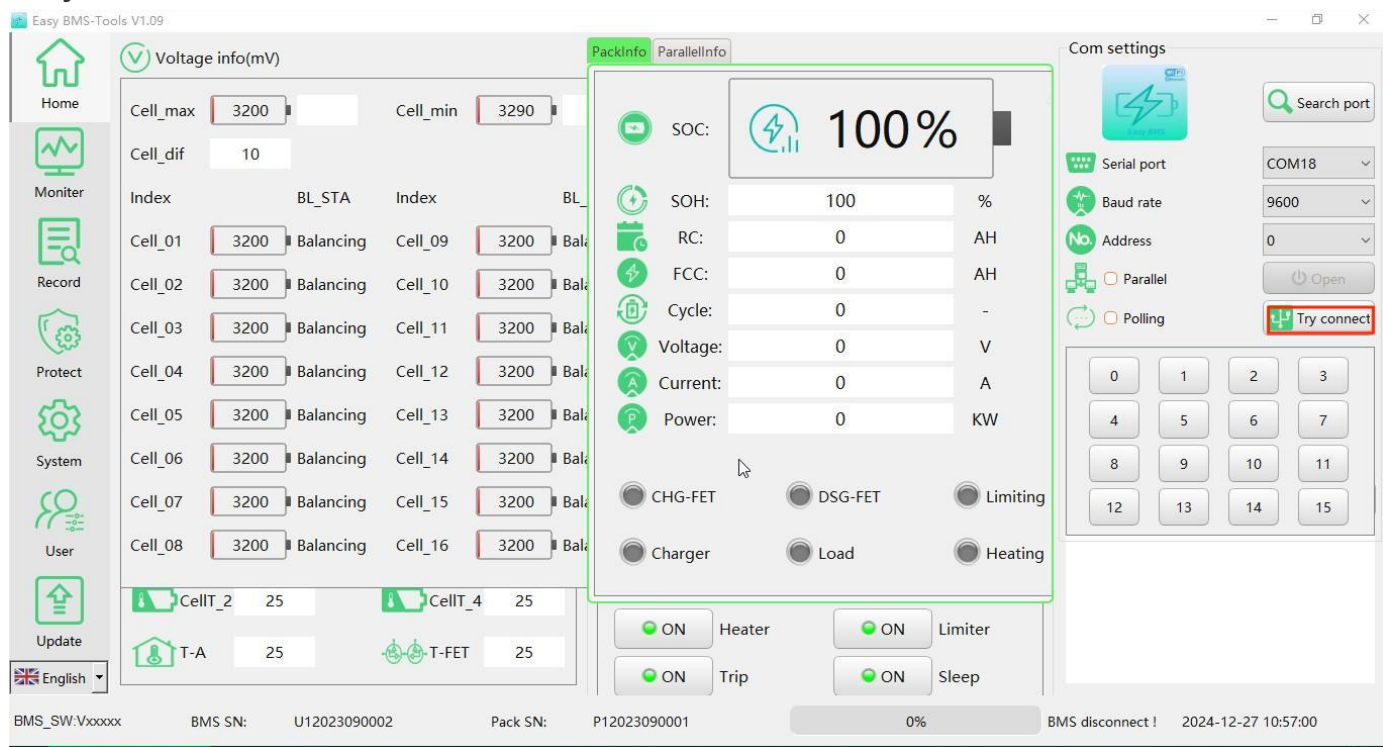
12 13 14 15

BMS_SW:Vxxxxx BMS SN: U12023090002 Pack SN: P12023090001 0% BMS disconnect! 2024-12-27 10:57:00

E.Select baud rate 选择波特率



F. Try to connect 尝试连接



G. Connection succeeded 连接成功



3-7 Basic information of the master station homepage 上位机主页的基本信息



1 Switching between Chinese and English modes on the host computer

上位机中英文切换模式

2 BMS tests the highest and lowest voltages of a certain series of cells in the battery pack and their voltage difference.

BMS 检测电池包某串电芯最高电压和最低电压与其之间的压差

3 BMS monitors the current voltage status of all cells in real time.

BMS 实时检测所有电芯当前电压状态

4 BMS detects the current temperature of 4 cell channels, ambient temperature, and MOSFET temperature.

BMS 检测当前的 4 路电芯温度、环境温度、MOS 管温度

5 Switching between single-unit battery mode and parallel battery mode status information

单机电池模式与并机电池模式状态信息切换

6 Current battery information, BMS charge and discharge enable, current limiting, external load, charger access, and heater film status detection

当前电池信息以及 BMS 充放电使能、限流、外部负载、充电器接入、加热膜状态检测

7 Current BMS enable switch status

当前 BMS 使能开关状态

8 Connect to the upper computer: Search for the serial port and then select the serial port and baud rate (9600-11200), and click Try to Connect! If you need to connect in parallel, please check the parallel mode, and then sequentially poll and monitor the status the parallel batteries.

连接上位机方式：搜索串口然后选择串口和波特率（9600-115200）并点击尝试连接！需并机请勾选并机模式，再依次轮询监控并机电池状态

9 Check the current number of monitorable battery packs

9 检测当前可监控电池包数量

10 indicates the current battery pack warning protection information.

提示当前电池包告警保护信息

11 Display the current BMS software version information, serial number, and battery pack serial number

显示当前 BMS 软件版本信息、序列号、电池包序列号

12 Display the current BMS connection status with the host computer

显示当前 BMS 与上位机的联机状态

3-8 Data recording of upper computer monitoring 上位机监控数据记录

Easy BMS-Tools V1.09

	Date	Address	Voltage(V)	Current(A)	SOC(%)	SOH(%)	FCC(AH)	RM(AH)	Cycles	AlarmSates	Protect1
49	2024-12-27 10:59:53	0	52.76	0.00	49	100	300	149	1		
50	2024-12-27 10:59:54	0	52.75	0.00	49	100	300	149	1		
51	2024-12-27 10:59:55	0	52.76	0.00	49	100	300	149	1		
52	2024-12-27 10:59:56	0	52.75	0.00	49	100	300	149	1		
53	2024-12-27 10:59:57	0	52.75	0.00	49	100	300	149	1		
54	2024-12-27 10:59:58	0	52.75	0.00	49	100	300	149	1		
55	2024-12-27 10:59:59	0	52.75	0.00	49	100	300	149	1		
56	2024-12-27 11:00:00	0	52.75	0.00	49	100	300	149	1		
57	2024-12-27 11:00:01	0	52.75	0.00	49	100	300	149	1		
58	2024-12-27 11:00:02	0	52.75	0.00	49	100	300	149	1		
59	2024-12-27 11:00:03	0	52.75	0.00	49	100	300	149	1		
60	2024-12-27 11:00:04	0	52.75	0.00	49	100	300	149	1		
61	2024-12-27 11:00:05	0	52.76	0.00	49	100	300	149	1		
62	2024-12-27 11:00:06	0	52.75	0.00	49	100	300	149	1		
63	2024-12-27 11:00:07	0	52.75	0.00	49	100	300	149	1		
64	2024-12-27 11:00:08	0	52.75	0.00	49	100	300	149	1		

Home Monitor Record Protect System User Update

English Recorded data Number of records 5000 Export Clear

BMS_SW:V1.01.46 BMS SN: 210524120288 Pack SN: A0189-1-2412-0025 60% BMS is connected ! 2024-12-27 11:00:08

Check the record data option, the host computer sends real-time data records once per second, with

a maximum of 20,000 that can be saved. The data can also be exported and cleared.

勾选记录数据选项，上位机以每秒发送一次实时数据记录，可选项最高 20000 条保存记录、并有导出和清除数据功能。

3-9 Historical records of the master computer 上位机历史记录

Easy BMS-Tools V1.09

	Date	Voltage(V)	Current(A)	SOC(%)	SOH(%)	FCC(AH)	Cycles	AlarmSates
1	2024-12-17 02:07:15	45.13	0.00	0	100	300	1	Low battery;
2	2024-12-17 02:06:43	44.96	0.00	0	100	300	1	
3	2024-12-17 02:06:06	44.80	0.00	0	100	300	1	Cell ...
4	2024-12-17 02:05:40	43.97	-60.06	0	100	300	1	Cell ...
5	2024-12-17 02:04:45	44.79	-60.06	0	100	300	1	Cell ...
6	2024-12-17 02:03:59	45.36	-60.06	1	100	300	1	Cell ...
7	2024-12-17 01:37:44	50.39	-59.99	9	100	300	1	Low battery;

Home Monitor **Record** Protect System User Update

Read Numbers: 164 Pause Export Delete record

BMS_SW:V1.01.46 BMS SN: 210524120288 Pack SN: A0189-1-2412-0025 40% BMS is connected ! 2024-12-27 11:00:46

The history record can automatically save BMS alarm information, and clicking to read it will list it.
 历史记录可自动保存 **BMS** 告警信息，点击读取即可列出

3-10 BMS protection parameters BMS 保护参数

Easy BMS-Tools V1.09

Primary protection Secondary protection

Over voltage 1 Cell OV alarm(mV) 3550 Cell OVP(mV) 3650 Delay (S) 1 Release(mV) 3450 Pack OV alarm(V) 56.80 Pack OVP(V) 58.40 Delay (S) 1 Release(V) 55.20 Read Write	Over current charge 1 OCC alarm(A) 205.0 OCC Protect(A) 210.0 OCC Delay (S) 2 OCC Release(A) 200.0 OCC Latchlimit 3 ReleaseTime(S) 30 Read Write	Cell over temperature OTC alarm(°C) 50.0 OTC_P(°C) 55.0 Delay (S) 5 Release(°C) 45.0 OTD alarm(°C) 55.0 OTD_P(°C) 60.0 Delay (S) 5 Release(°C) 50.0 Read Write	Cells under temperature UTC alarm(°C) 0.0 UTC_P(°C) -5.0 Delay (S) 5 Release(°C) 5.0 UTD alarm(°C) -15.0 UTD_P(°C) -20.0 Delay (S) 5 Release(°C) -10.0 Read Write	Ambient temperature OTA alarm(°C) 65.0 OTA_P(°C) Delay (S) Release(°C) 60.0 UTA alarm(°C) -40.0 UTA_P(°C) Delay (S) Release(°C) -35.0 Read Write
Under voltage 1 Cell UV alarm(mV) 2800 Cell UVP(mV) 2700 Delay (S) 1 Release(mV) 2900 Pack UV alarm(V) 44.80 Pack UVP(V) 43.20 Delay (S) 1 Release(V) 46.40 Read Write	Over current discharge 1 OCD alarm(A) -205.0 OCD Protect(A) -210.0 OCD Delay (S) 2 OCD Release(A) -200.0 OCD Latchlimit 3 ReleaseTime(S) 30 Read Write	MOSFET temperature FET alarm(°C) 90.0 FET OTF(°C) 110.0 Delay (S) 3 Release(°C) 85.0 Read Write	SOC cut-off SOC alarm(%) 15 SOC cut off(%) 10 Delay (S) Release(%) Diff alarm(mV) 500 Read Write	Config Import Export Read all Write all Set default parameters

Home Monitor Record **Protect** System User Update

BMS_SW:V1.01.46 BMS SN: 210524120288 Pack SN: A0189-1-2412-0025 80% BMS is connected ! 2024-12-27 11:01:05

3-11 System parameters 系统参数

Easy BMS-Tools V1.09

Home
 Monitor
 Record
 Protect
System
 User
 Update
English

Battery parameters
Cells Number: 16
Cells NTC Number: 4
Battery Type: Lithium iron
Remaining Capacity(AH): 149
Full Capacity(AH): 300
Design Capacity(AH): 300
Number of cycles: 1
Read Write

Balanced settings
Enable switch: ON
Threshold volt(mV): 3400
Voltage diff(mV): 30
Idle balance: OFF
Read Write

Limit parameters
Limit enable: ON
Limit model: Passive
Limit current(A): 215.0
Read Write

System information
Modifi date: 23-10-12
Update Flag: 89
Update counts: 11
WRSSI: 0
Read

Power management parameters
Current sensor(uΩ): 140
Self consumption(mA): 15
Idle Sleep Delay(min): 30
Cells Sleep volt(mV): 3000
Inspection time(min): 600
Cells SHIP voltage(mV): 2400
Read Write

Heating parameters
Enable switch: ON
Open Threshold(°C): 5.0
Close Threshold(°C): 10.0
Read Write

System switch enable
PWR enable: ON
Buzzer enable: OFF
LED alarm EN: ON
Trip enable: ON
Sleep enable: ON
Read Write

Config
Import Export
Read all Write all
Set default parameters

BMS_SW:V1.01.46 BMS SN: 210524120288 Pack SN: A0189-1-2412-0025 30% BMS is connected ! 2024-12-27 11:01:22

3-12 User parameters 用户参数

A.Setting information 设置信息

Easy BMS-Tools V1.09

Home
 Monitor
 Record
 Protect
 System
User
 Update
English

Set information WIFI/MQTT parameters Calibration information

Inverter parameters
CAN BUS: 0.Pylon V2.06
RS485: 0.Pylon V3.5
Max charging voltage(V): 56.0
Max charging current(A): 200.0
Max discharge current(A): 200.0
Discharge Cut-off Voltage(V): 44.0
Forced Charge Request 1 SOC (%): 10
Forced Charge Release 1 SOC (%): 20
Forced Charge Request 2 SOC (%): 5
Forced Charge Release 2 SOC (%): 10
Read Write

Com parameters
BMS adrss: 255
CAN BAUD: 500
UART1 BAUD: 115200
UART2 BAUD: 115200
UART3 BAUD: 115200
UART4 BAUD: 9600
UART5 BAUD: 9600
Read Write

System commands
BMS Reset: Reset BMS
BMS RTC time: 2024-12-27 11:01:23
Read: Update the BMS RTC time
Read all Write all

Production information
BMS SN: 210524120288
PACK SN: A0189-1-2412-0025
Manufacture Date: 2024-09-15
Manufacture Name: PYLON
Order Number: A001-20240915001
Battery Name: JY-U2-200A
Read Write

Version information
Hardware version: 1.01.05
Software version: 1.01.46
Protocol version: 1.01.02
Read

BMS_SW:V1.01.46 BMS SN: 210524120288 Pack SN: A0189-1-2412-0025 20% BMS is connected ! 2024-12-27 11:01:46

B. WIFI/MQTT Parameters WIFI/MQTT 参数

Easy BMS-Tools V1.09

Home Monitor Record Protect System **User** Update English

Set information **WIFI/MQTT parameters** Calibration information

WIFI/MQTT parameters

Server Address: broker.jinyuenergy.com

Port: 1883

Client ID: A0189-1-2412-0025

Suggest using PACK SN as the Client ID

Username: test

MQTT Password: 123456

WIFI SSID: JYBMSWIFI_2.4G

WIFI Password: 88888888

Read Setting

BMS_SW:V1.01.46 BMS SN: 210524120288 Pack SN: A0189-1-2412-0025 0% BMS is connected! 2024-12-27 11:02:34

C Calibration information 矫正信息

Easy BMS-Tools V1.09

Home Monitor Record Protect System **User** Update English

Set information WIFI/MQTT parameters **Calibration information**

Calibration parameters

Zero current(A)	0.000	Calibration	Reset
DisCharging current(A)	-20.00	Calibration	Reset
Charging current(A)	20.00	Calibration	Reset
Cells reference volt(mV)	3400	Calibration	Reset
Pack reference volt(V)	54.40	Calibration	Reset

Read One click calibration

Line loss compensation

Cells_01 (uΩ)	0	Cells_07 (uΩ)	0	Cells_13 (uΩ)	0
Cells_02 (uΩ)	0	Cells_08 (uΩ)	0	Cells_14 (uΩ)	0
Cells_03 (uΩ)	0	Cells_09 (uΩ)	0	Cells_15 (uΩ)	0
Cells_04 (uΩ)	0	Cells_10 (uΩ)	0	Cells_16 (uΩ)	0
Cells_05 (uΩ)	0	Cells_11 (uΩ)	0	Cells_17 (uΩ)	0
Cells_06 (uΩ)	0	Cells_12 (uΩ)	0	Cells_18 (uΩ)	0

Read Write

BMS_SW:V1.01.46 BMS SN: 210524120288 Pack SN: A0189-1-2412-0025 70% BMS is connected! 2024-12-27 11:02:53