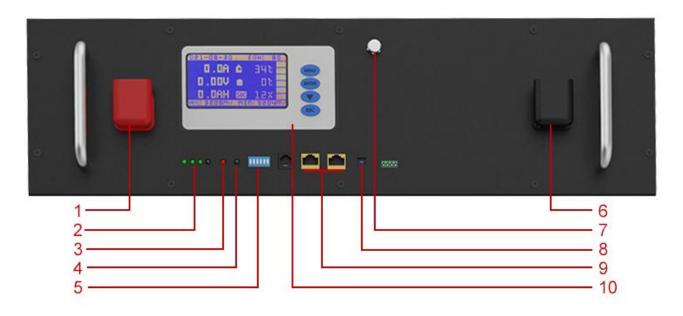
48V LiFePO4 BATTERY PACK

USER MANUAL

CONTENT

1. Layout of Front Panel	- 1
2. Battery Specifications	- 2
3. Working Mode	- 3
3.1. Basic Mode	-3
3.2. Description of Buzzer	-3
3.3. Description of Reset Button	- 3
3.4. Dormancy and Activation	- 3
4. LED Indicator Description	-4
4.1. LED Indicator Description	- 4
4.2. SOC Capacity Indicator	- 4
4.3. Status Indicator	-4
4.4. Flash Instruction of LED Indicators	- 4
5. Communication	
6. Assignment of ID Addresses	- 6
7. LCD Display Introduction	- 7
7.1. Power-on screen	-7
7.2. Press "MENU" to enter the main menu	- 8
7.3. Dormancy and Activation Function	12
8. Upper Computer Software Introduction	13
9. List of Accessories	17

1. Layout of Front Panel



NO.	Name	Function
1	Positive Terminal	Charge & Discharge
2	SOC	Indicators For Capacity
3	ALM	Indicator For Alarms
4	RUN	Indicator For Running Status
5	ADD	Dial Code Of Communication
6	Negative Terminal	Charge & Discharge
7	Power Switch	ON/OFF Switch
8	Reset	Activate/Hibernate BMS
9	RS485*2/CAN*2	Communication Interface
10	LCD Screen	Display Battery Information

2. Battery Specifications

Nominal Parameters						
Model No	LFP48100P	LFP48120P	LFP48200P	LFP48230P		
Voltage	51.2 V	51.2 V	51.2 V	51.2 V		
Capacity	100Ah	120Ah	200Ah	230Ah		
Energy	5.12KWh	6.14KWh	10.24KWh	11.78KWh		
Dimensions (L * W * H mm)	480*440*160	480*440*200	480*440*255	480*440*255		
Weight (KG)	Approx 48	Approx 55	Approx 85	Approx 90		
Built-in BMS	16S 100A	16S 100A	16S 200A	16S 200A		
Ele	ectrical Paramet	ers				
Operation Voltage	51.2 VDC	51.2 VDC	51.2 VDC	51.2 VDC		
Max. Charging Voltage	58.4 VDC	58.4 VDC	58.4 VDC	58.4 VDC		
Cut-off Discharge Voltage	43.2 VDC	43.2 VDC	43.2 VDC	43.2 VDC		
Max. Continuous Charging and Discharging Current	100A	100A	200A	200A		
Peak Discharge Current	150A (5s)	150A (5s)	250A (5s)	250A (5s)		
	Basic Parameter	S				
Life Time(25°C)	10 years					
Communication Method						
Display Method and Language	LCD, English					
Life Cycles (80% DOD, 25°C)	≥6000 times Cycles					
Operating Temperature Range	-20°C~70°C					
Operating Humidity Range	10%~85%					

3. Working Mode

3.1. Basic Mode

3.1.1. Charging Mode

The BMS turns on the charging MOSFET for charging when it detects an external charging voltage of \geq 48V, and the cell voltage and temperature are within the chargeable range. When the charging current reaches the effective charging current, it enters the charging mode. Both charging and discharging MOSFETs are on in charge mode.

3.1.2. Discharging Mode

The BMS enters the discharge mode when it detects that the load is connected and the cell voltage and temperature are within the dischargeable range and the discharge current reaches the effective discharge current.

3.1.3. Standby Mode

When neither of the above two modes is met, it enters standby mode.

3.1.4. Hibernation Mode

The BMS will enter sleep (shutdown) mode after a specific time of standby, or when the battery triggers undervoltage protection, or when the key is executed to shutdown or when the upper computer executes the shutdown command mode.

The wake-up conditions of hibernation mode:

1. Make charging to activation;

2. Press the button to power on.

3.2. Description of Buzzer

Buzzer function can be enabled or disabled via the upper computer, factory default is disabled.

3.3. Description of Reset Button

When the BMS is dormant, press the button for 1S and then release it, the protection board will be activated and the LED will light up from "L4" for 0.5 seconds.

When the BMS is active, press the button for 3S and then release it, the board will be dormant and the LED will light up from "RUN" for 0.5 seconds.

3.4. Dormancy and Activation

3.4.1. Dormancy

The system will enter low-power mode when any of the following conditions are met.

1. Single cell undervoltage protection or overall undervoltage protection is not released within 30 minutes.

2. Press the button for 3 seconds and then release the button.

3. The minimum individual voltage is lower than the sleep setting voltage (default value 3150mV) and the duration reaches the sleep delay time (default value 1440 minutes), and there is no communication and no charging/discharging in meanwhile.

4. Forced shutdown via the upper computer software.

Note: Before entering hibernation, make sure that no external voltage is connected to the P-terminus, otherwise it will not be able to enter the low-power mode.

3.4.2. Activation

When the system is in low-power mode and any of the following conditions are met, the system will exit low-power mode and enter normal operation mode.

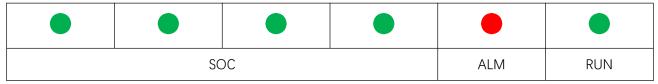
1. Connect to the charger, the charger output voltage should be greater than or equal to 48V.

2. Press the button for 1S, after releasing the button.

4. LED Indicator Description

4.1. LED Indicator Description

Four green capacity indicators, one red alarm indicator, one green operation indicator



4.2. SOC Capacity Indicator

Status		Cha	irge			Disch	narge	
Capacity Indicator	L1•	L2 •	L3●	L4 •	L1•	L2●	L3●	L4 •
0~25%	OFF	OFF	OFF	Flash 2	OFF	OFF	OFF	ON
25 ~ 50%	OFF	OFF	Flash 2	ON	OFF	OFF	ON	ON
50 ~ 75%	OFF	Flash 2	ON	ON	OFF	ON	ON	ON
75 ~ 100%	Flash 2	ON	ON	ON	ON	ON	ON	ON
Running Indicator ●		0	N			Flas	sh 3	

4.3. Status Indicator

Status	Warning/Normal	RUN	ALM	SOC LED	Mark					
Status	wanning/Normai	•	•	• • • •	IVIALK					
OFF		OFF	OFF	ALL OFF						
Standby	Normal	Flash 1	OFF							
Standby	Warning	Flash 1	Flash 2							
	Normal	ON	OFF							
	Over Voltage Warning	ON	OFF							
Chargo	Over Current, Over Voltage					ON Flash 2				
Charge	and Temperature Warning		ON Flash 2	ON as battery capacity indicates						
	Over Voltage Protection	Flash 1	OFF							
	Over Current Protection	ON	OFF							
	Normal	Flash 3	OFF							
	Warning	Flash 3	Flash 2							
Discharge	Low Voltage Protection	Flash 1	Flash 2							
Discharge	Protection of Overcurrent,									
	Short Circuit, Temperature,	OFF	ON	ALL OFF						
	Reverse Polarity etc									

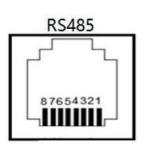
4.4. Flash Instruction of LED Indicators

	ON	OFF
Flash 1	0.25 S	3.75 S
Flash 2	0.5 S	0.5 S
Flash 3	0.5 S	1.5 S

5. Communication

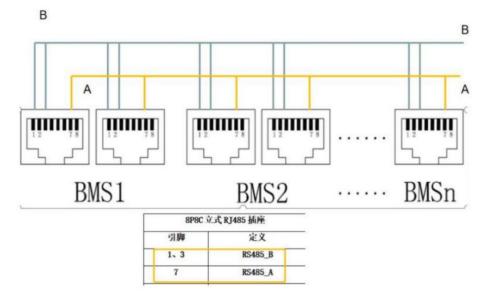
With RS485 and CAN interface, which supports communicating with multiple machines in parallel and with the upper computer. RS485 baud rate is 19200, CAN baud rate is 500K.

RS485 INTERFACE



8P8C RJ45 Pins Assignment (RS485)					
Pins	Definition				
1、3	RS485_B				
7	RS485_A				
2、6	GND				
4	CANH				
5	CANL				
8	NC				

The multi-unit parallel bus connections are shown in the following figure.



	Instructions For Compatibility With Inverters						
1. Compatible inverter brands list	Victron, Pylontech, Goodwe, Growatt, Voltronic, Deye, LXP, Sofar, GinLong, SMA, Sacolor, 拓宝.						
2. If your invertor	① If you can provide the communication protocol (a kind of code) of your inverter, we can customize the BMS to be compatible with your inverter, minimum order quantity for customzed is 50 pcs.						
2. If your inverter not on our list above	② Without communication protocol, inverter cannot communicate with our battery. You need to make some setting on your inverter, for example, select the user-defined mode and set the corresponding voltage level(according to the inverter user manual), so that they can work together without communication.						
More quest	More questions about inverter communication, pls contact our customer service.						

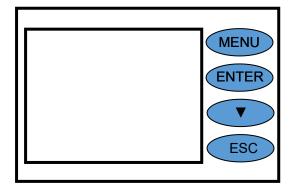
6. Assignment of ID Addresses

When performing parallel communication operation of multiple machines, you need to configure the dialing address of each PACK first. When the BMS is configured for stand-alone operation, and the dialing address can be any address; when the BMS is configured for cascade operation mode, the slave dialing address is selected from 1 to 31, and the host dialing address is selected from 32 or 48 according to the inverter brand.

You can enter the address code of the master or slave battery in the system parameters of the upper computer to detect and communicate.

Demonster	PACK		Code					
Remarks	NO.	ADD	6	5	4	3	2	1
	PACK 1	1	OFF	OFF	OFF	OFF	OFF	ON
	PACK 2	2	OFF	OFF	OFF	OFF	ON	OFF
	PACK 3	3	OFF	OFF	OFF	OFF	ON	ON
	PACK 4	4	OFF	OFF	OFF	ON	OFF	OFF
	PACK 5	5	OFF	OFF	OFF	ON	OFF	ON
	PACK 6	6	OFF	OFF	OFF	ON	ON	OFF
	PACK 7	7	OFF	OFF	OFF	ON	ON	ON
	PACK 8	8	OFF	OFF	ON	OFF	OFF	OFF
	PACK 9	9	OFF	OFF	ON	OFF	OFF	ON
	PACK 10	10	OFF	OFF	ON	OFF	ON	OFF
	PACK 11	11	OFF	OFF	ON	OFF	ON	ON
	PACK 12	12	OFF	OFF	ON	ON	OFF	OFF
	PACK 13	13	OFF	OFF	ON	ON	OFF	ON
	PACK 14	14	OFF	OFF	ON	ON	ON	OFF
Reals (TID) if your inverter is Voltronia mostor	PACK 15	15	OFF	OFF	ON	ON	ON	ON
Pack (TIP: if your inverter is Voltronic, master battery dip 1 is OK)	PACK 16	16	OFF	ON	OFF	OFF	OFF	OFF
battery dip 1 is OK/	PACK 17	17	OFF	ON	OFF	OFF	OFF	ON
	PACK 18	18	OFF	ON	OFF	OFF	ON	OFF
	PACK 19	19	OFF	ON	OFF	OFF	ON	ON
	PACK 20	20	OFF	ON	OFF	ON	OFF	OFF
	PACK 21	21	OFF	ON	OFF	ON	OFF	ON
	PACK 22	22	OFF	ON	OFF	ON	ON	OFF
	PACK 23	23	OFF	ON	OFF	ON	ON	ON
	PACK 24	24	OFF	ON	ON	OFF	OFF	OFF
	PACK 25	25	OFF	ON	ON	OFF	OFF	ON
	PACK 26	26	OFF	ON	ON	OFF	ON	OFF
	PACK 27	27	OFF	ON	ON	OFF	ON	ON
	PACK 28	28	OFF	ON	ON	ON	OFF	OFF
	PACK 29	29	OFF	ON	ON	ON	OFF	ON
	PACK 30	30	OFF	ON	ON	ON	ON	OFF
	PACK 31	31	OFF	ON	ON	ON	ON	ON
r Pack: if your inverter is from other brands except , SMA and Growatt, the ADD of master pack is 32	DACK 22	32	ON	OFF	OFF	OFF	OFF	OFF
r Pack: if your inverter is from Victron, SMA or t, the ADD of master pack is 48	PACK 32	48	ON	ON	OFF	OFF	OFF	OFF

7. LCD Display Introduction



Button description:

MENU: Enter the management system.

ENTER: Enter to the sub-menu.

 $\mathbf{\nabla}$: Move the cursor down or to next page.

ESC: Return to the previous menu.

7.1. Power-on screen



System Date	SOH
Charging/Discharging Current	Environmental Temperature
Total Voltage	Max. Temperature of Battery Cell
Remaining Capacity	SOC
Max. Voltage of Single Unit	Min. Voltage of Single Unit

Battery protection status:

Over Voltage: OV Low Voltage: LV Over Temp: OT Low Temp: LT Over Current: OC Short Circuit: SC

Note: When there is protection situation of the battery, there will show the corresponding protection status, otherwise, the protection status will not be showed.

0.00V

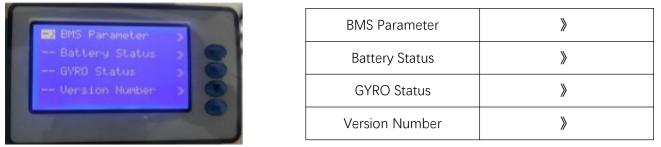
0.0A

》

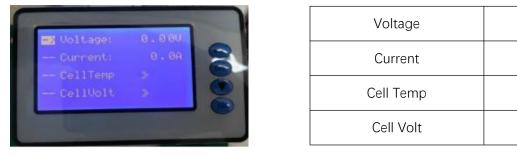
》

7.2. Press "MENU" to enter the main menu

(Note: "» " means there is a sub-menu, press "ENTER" to enter the sub-menu)



7.2.1. Move the cursor to "BMS Parameter" and press "Enter" to enter.



Move the cursor to "Cell Temp" and press "Enter" to check the battery temperature information, then press " $\mathbf{\nabla}$ " to turn the page.



Temp 01	xx℃
Temp 02	хх°С
Temp 03	хх°С
Temp 04	xx℃
MOS Temp	xx℃
Env Temp	хх°С

Move the cursor to "Cell Volt" and press "Enter" to check the battery voltage information, then press " $\mathbf{\nabla}$ " to turn the page.

Cel101 Cel102 Cel103 Cel104	8 mU 9 mU 9 mU 8 mU
Cel105 Cel106 Cel107 Cel108	
Cel109 Cel110 Cel111 Cel112	
Cell113 Cell114 Cell115 Cell116	
SOC i Noninal i Remain i BMS Cycles:	8% 8.0 AH 8.0 AH 8

Cell 01	xxxxmV
Cell 02	xxxxmV
Cell 03	xxxxmV
Cell 04	xxxxmV
Cell 05	xxxxmV
Cell 06	xxxxmV
Cell 07	xxxxmV
Cell 08	xxxxmV
Cell 09	xxxxmV
Cell 10	xxxxmV
Cell 11	xxxxmV
Cell 12	xxxxmV
Cell 13	xxxxmV
Cell 14	xxxxmV
Cell 15	xxxxmV
Cell 16	xxxxmV
SOC	xx%
Nominal Capacity	0.0AH
Remain Capacity	0.0AH
BMS Cycles	0

7.2.2. Move the cursor to "Battery Status" and press "Enter" to check the battery status information, then press " $\mathbf{\nabla}$ " to turn the page.



Status	IDLE/DISCHG/CHARGE/FULL
Alarm Status	»
Protect Status	»
Failure Alarm	»

Move the cursor to "Alarm Status" and press "Enter" to check the battery alarm information, then press " $\mathbf{\nabla}$ " to turn the page.



Over Volt	YES/NO
Low Volt	YES/NO
Over Temp	YES/NO
Low Temp	YES/NO
Low SOC	YES/NO
Diff Volt	YES/NO
Over Curr	YES/NO
Reverse	YES/NO

Move the cursor to "Protect Status" and press "Enter" to check the battery protection information, then press " $\mathbf{\nabla}$ " to turn the page.



Over Volt	YES/NO
Low Volt	YES/NO
Over Temp	YES/NO
Low Temp	YES/NO
Over Curr	YES/NO
Short Curr	YES/NO

Move the cursor to "Failure Alarm" and press "Enter" to check the battery fault information, then press " $\mathbf{\nabla}$ " to turn the page.



Sample Line	N/Y
Charge MOS	N/Y
Dis CHG MOS	N/Y
Sample Chip	N/Y
SC Times	0
Over Temp CNT	0
Over Cur CNT	0
OVER Chg CNT	0
Over Dchg CNT	0

7.2.3. Move the cursor to "GYRO Status" and press Enter to check the gyroscope information, then press " $\mathbf{\nabla}$ " to turn the page. (Note: This gyroscope is optional)



Set X axis:	
Place Option:	

7.2.4. Move the cursor to "Version number" and press Enter to check the version information, then press " $\mathbf{\nabla}$ " to turn the page.



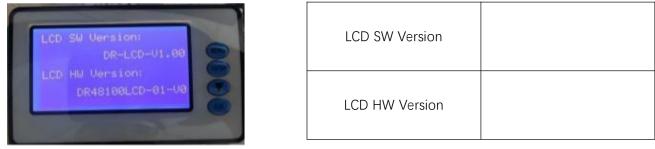
BMS Version	»
LCD Version	»

Move the cursor to "BMS Version" and press "Enter" to check the BMS version information.



BMS SW Version	
BMS HW Version	

Move the cursor to "LCD Version" and press "Enter" to check the LCD version information.



7.3. Dormancy and Activation Function

After 1 minute of no button operation in normal running, the display screen will be off (only the backlight is off). Pressing any button while the screen is off will allow the screen light and operate normally.

8. Upper Computer Software Introduction

□ 实时监控	电池信息		串口	Enable the monitoring
◎ 并机监控 ~	总电压 V SOC 总电流 A SOH 当前PACK	% 剩余容量 AH % 满充容量 AH	町口 COM3 v 波特率 19200 v 地址 1 v 阿陽时间 1s v	software, select the communication interface
⑦ 基本参数 ~	循环次數	0	开Matabb 发送个数 0 解析成功 0	
□ 系统设置 ~	单体电压	温度信息	系统状态	of the corresponding
🗅 历史数据	息电压 0 V最大压差 0 mV	最大温差 0.0 °C 环境温度 0.0 °C MOS温度 0.0 °C	放きMOS ● 有效放电 ● 預設MOS ACC	device, select the
① 帮助	發无政语	智无政据	 劳动MOS 有效劳动 方动机在线 第二成状态 	corresponding baud rate, and finally click
			告警状态	"Open Serial Interface" to
			保护状态 无	and get the basic
PCB 祭码 BMS 版本			故 職状态	parameters.
通信:已店除 串口:关闭 host: V1.0.025-b	Ξ			



 	电池信息 总电压 52.72 V SOC 100 总电流 0.00 A SOH 10 当前PACK		串口 メ5時半日 単口 COM3 〜 地址 1 〜	After the BMS communicates with the upper computer, you car
② 基本参数 🗠	循环次数	0	停止当控 发送个数 1	
国 系统设置 🗸 🦷	单体电压	温度信息	波特率 9600 ~	monitor the basic
□ 历史数据	总电压 52.72 V 最大压差 9 mV	最大 温差 1.0 °C 环境温度 25.0 °C	间隔距前 1s <u>·</u> 解析成功 1	parameters and status of
	电信 01 3 291 V 最低	MOS温度 27.0 °C		the battery in real time.
① 帮助	电池 02 3.292 V	温度 01 26.0 °C	系统状态	
	电给 03 3 300 V 翻高	温度 02 26.0 °C	放电MOS 有效放电 预放MOS ACC	These information
	电池 04 3.296 V	温度 03 25.0 °C 温度 04 26.0 °C	● 充电MOS ● 有效充电 ◎ 加热	include battery voltage,
	电池 05 3.298 V	温度 04 20.0 °C	第二方电机在线 图 限宽状态	
	电池 06 3.299 V		告警状态	current, SOC, SOH, cycle
	电池 07 3.300 V 电池 08 3.297 V		古餐 秋 心 无	count, battery
	电池 09 3.297 V		~	
PCB 条码 DMA	电池 10 3.298 V		保护状态	temperature, alarm
BMS 版本: DR-H	电池 11 3.296 V		无	status, protection status,
通信:已连接	电池 12 3.296 V			
host: V1.0.025-b	电池 13 3.293 V		故障状态	etc.
	电压 14 3.292 V	· · · · · · · · · · · · · · · · · · ·	т. Т	

◎ 并机监控 ~											real-time data storage o
实时数据	序号	采集时间	总电压(V)	总电流(A)	SOC(%)	SOH(%)	满充容量(Ah)	剩余容量(Ah)	循环次数	环境温度(°C)	the BMS and export as
多组并联数据	1	2021-10-12 15:27:22	0.00	0.00	50.00	100	50.00	25.00	0.0	26.0	excel tables.
)基本参数 🗠	2	2021-10-12 15:27:23	0.00	0.00	50.00	100	50.00	25.00	0.0	26.0	
系统设置	3	2021-10-12 15:27:24	0.00	0.00	50.00	100	50.00	25.00	0.0	26.0	
HUNCH	4	2021-10-12 15:27:25	0.00	0.00	50.00	100	50.00	25.00	0.0	26.0	
〕历史数据	5	2021-10-12 15:27:26	0.00	0.00	50.00	100	50.00	25.00	0.0	26.0	
帮助	6	2021-10-12 15:27:27	0.00	0.00	50.00	100	50.00	25.00	0.0	26.0	
	7	2021-10-25 17:30:23	52.73	0.00	100.00	100	200.00	200.00	0.0	26.0	
	8	2021-10-25 17:30:24	52.73	0.00	100.00	100	200.00	200.00	0.0	26.0	
	9	2021-10-25 17:30:25	52.73	0.00	100.00	100	200.00	200.00	0.0	26.0	
CB 条码: DMA	10	2021-10-25 17:30:26	52.73	0.00	100.00	100	200.00	200.00	0.0	26.0	
16:已连接 10:开启	11	2021-10-25 17:34:10	52.73	0.00	100.00	100	200.00	200.00	0.0	26.0	
ost: V1.0.025-b	= ¹²	2021 10 25 17:24-11	ED 70	0.00	100.00	100	200.00	200.00	0.0	26.0	

实时监控	Ŧ	NIME MARKE	- 9	11808	→12设置	🔄 自动滚动					
并机监控 ^	开始其	地 1 ~	结束地	虹 2 ~	Ì	当前地址 2					
实时数据											
多组并联数据	序号	采集时间	PACK	总电压(V)	总电流(A)	SOC(%)	SOH(%)	满充容量(Ah)	剩余容量(Ah)	循环次数	环境温度
基本参数	1	2021-08-30 16:00:09	1	52.51	0.00	50.00	100	100.00	50.00	0.0	25.0
	2	2021-08-30 16:00:10	2	52.52	0.00	50.00	100	100.00	50.00	0.0	25.0
系统设置	3	2021-08-30 16:00:11	1	52.50	0.00	50.00	100	100.00	50.00	0.0	25.0
历史数据	4	2021-08-30 16:00:12	2	52.52	0.00	50.00	100	100.00	50.00	0.0	25.0
帮助	5	2021-08-30 16:00:13	1	52.50	0.00	50.00	100	100.00	50.00	0.0	25.0
	6	2021-08-30 16:00:14	2	52.52	0.00	50.00	100	100.00	50.00	0.0	25.0
	7	2021-08-30 16:00:15	1	52.51	0.00	50.00	100	100.00	50.00	0.0	25.0
	8	2021-08-30 16:00:16	2	52.52	0.00	50.00	100	100.00	50.00	0.0	25.0
CB 祭码: DMA… MS 版本: DR-H…	9	2021-08-30 16:00:17	1	52.51	0.00	50.00	100	100.00	50.00	0.0	25.0
唐:已连接 □:开启	10	2021-08-30 16:00:18	2	52.52	0.00	50.00	100	100.00	50.00	0.0	25.0
L: ###	11	2021-08-30 16:00:19	1	52.51	0.00	50.00	100	100.00	50.00	0.0	25.0

When monitoring multiple packs, you need to set the start and end address of packs manually, you can check and comparethe data of each pack. And you can also export as excel table.

🖵 实时监控		潮輸造中	ſ	读取 给	è#₿	写入遗中	停止写	跃	•	短期认		导入参数	导出参数	写入全部		Basic parameters 1.
◎ 并机监控 ∨	17	单体电	压		_	\$										Click "Read All" when
② 基本参数 ^	1		过	放保护	ij	放告警	当前	is	抗告誓	i	过充保	R护				enter for the first time
基本参数1		动作		2600		2650	7/20/2011		3640			3750				This section includes
基本参数2		恢复延时		2900		2900 2000	3.3		3500 2000			3340				reading basic parame
参数操作		总体电	压													information, restoring
国 系统设置 ~			过	放保护	过	放告譬	当前	i	抗告警	ï	过充例	彩护				default parameters,
🗋 历史数据		动作恢复		21.6		23	52.72		55 28			55 27.3				writing individual
① 帮助		延时		1000		2000	52.12		2000			1000				parameters, writing a
		充电电	池温度													parameters, importin
			电池	低温保护		低温告警	当前	电池	自己告誓	电池	池高温					parameters and
PCB 条码 DMA		动作恢复		-5		0	26		55			65 55				exporting parameters
BMS 版本: DR-H 通信: 已连接 串口: 开启		延时		4000		4000	20		4000			4000				is not recommended
host: V1.0.025-b	≡	放电电	池温度	t											-	manually modified
																default parameters).

 实时监控 ③ 并机监控 ~ 	新始語中 道歌全部 したい 加热设置	写入全部	写入选中 停止写入 其他电池参数设置				Basic parameters 2. Click "Read All" when
 ○ 基本参数 ^ 基本参数1 基本参数2 参数現化 回 系统设置 > ○ 历史数据 ④ 帮助 	加热局动组织(*C) 加热制除组度(*C) 静态加热局动电压(mV) 静态加热局动电压(mV) 静态加热解除电压(mV) 满容量衰减系数设置 每週环一次用容量衰减系数设置 温度高于25*C每增加1*C满容 温度低于25*C每增加1*C满容	量增长系数(单(000000000000000000000000000000000000000	 电池乘充载止电流(M) 电池乘充载止电流(mA) 限流启动电流(1C) 温度个载 	000000000000000000000000000000000000000	enter for the first time. This section includes heating settings, other BMS parameter information, etc. (it is not recommended to manually modified default parameters).
PCB 贵弱 DMA BMS 版本 DR-H 通信 已结除 車口: 开始 host: V1.0.025-b	=						

〕实时监控	調約30中 波取全部 写入全	部局入选中	停止写入		System parameter
并机监控 🗸		-D/GPT			setting.
	系统参数配置 总充容量校准(mAH)	0	清除记录	6	Click "Read All" when
基本参数	 总放容量校准(mAH) 	0	□ 过放保护次数	787	enter for the first time
系统设置 ^	行驶总里程(Km)	0	□ 过流保护次数	17	You can monitor the
系统参数	电池串数(n)	16	□ 温度保护次数	0	BMS parameters
数据校准	历史数据存储间隔(min)	10	短路保护次数	0	configuration, sleep
外挂模块	_ 生产日期-年		MOS高温保护次数	0	settings and BMS
普通遥控 在线升级	生产日期-月	Q	□ 环境高温保护次数	0	information in
住现开级 系统参数 1	生产日期-日		□ 环境(印显保护次数	0	
	SN条码 DMA210930	0001			real-time(it is not
历史数据	PCB条码 DMA210930	0001			recommended to
帮助	□ 生产商				manually modified
3 条码: DM S 版本: DR	休眠设置				default parameters).
15 版本: DR 書: 已這種	■ 1/1000				

□ 实时监控	全部绞推	Data calibration: Here is
○ 并机监控 ∨	#銀(m) AdiB5/組(mV) 2500 Bi5i85/組(mV) 3700	calibration content of
 ⑦ 基本参数 ~ 	电流校准	BMS data (all has
国 系统设置	充电电流:55(A) 15/10 15/10 15/10 15/10	calibrated by factory, not
系统参数	充电电流 > 5(A) 60億 1899	recommended for
数据校准	放电电流s5(A) big 监狱	private calibration).
外挂模块	放电电流 > 5(A) KOR 編5()	
普通遥控	设计容量(Ah) Kit 增加	Plug-in modules: Here
在线升级	方満容量(Ah) 100歳 1859	will contains information
系统参数 1	對余容量(Ah) 65曲 1894	about some additional
□ 历史数据	· 循环次数(次) 8508 第559	functional modules.
6)帮助	温度数据	
	Temp 01(*C) total lase	
PCB 祭研: DM BMS 版本: DR 通信: 已达纳	Temp 02(*C) 15/8 1879	

工装控制	一线通控制	加热控制	Normal remote control:
读取状态 ○ 打开工装 ○ 打开工装	读取状态 〇 一线通常电平 〇 一线通任电平	读取状态 ① 打开加热 ① 关闭加热	Here includes the control
			of charging and
加熱使能控制	强制充电MOS控制	强制放电MOS控制	discharging MOS,
FIFFtamente Ø XFRbathetele	HERREMOS WITFAREMOS	● 连接线电MOS ● 顺开线电MOS	heating and other states
强制预放MOS控制	清除历史数据	充电通信使能	(please consult the
建設状态 ③ 法律所能がMOS ● 第7开所能がMOS	使取状态 ③ 满种历史数据 ④ 清粉历史数据		manufacturer for
Tittom			operation).
工表设直	金融 建酸盐中 医酸酸盐	读取状态	
□ 均衡 01 ● □ 均衡 02 ● □ 均)前 03 2 均衡 04 2 均衡 05 2	均衡 06 均衡 07 0 均衡 08 0	Online upgrade:
□ 均衡 09 0 □ 均衡 10 0 □ 均)新11 0 2 均衡12 0 2 均衡13 0	□ 均衡14 □ 均衡15 □ 均衡16 □	software online upgrade
			function of BMS (please
			consult the manufacturer
			for operation).
	正式収込の ・ 打汗工術 ● 共正工術 加熱使能控制 ● 共同工術 ● 打汗Tanhaski ● メ活動のから気候 ● 日子目ののののなどであり ● 総合ののののなどのののののののののののののののののののののののののののののののの	13年1年 95元1余 17开1案 95元1余 加熱使能控制 3年504.5 17月1日の日本 95元1余 加熱使能控制 3年504.5 17月1日の日本 95元1余 3期初た地のS控制 15年504.05 13時の比較の 16年7月1日の日本 15年7月1日の日本 15年7月1日の日本 15年7月1日の日本 15年7月1日の日本	「17开工業 第1日日 「17开工業 「17T 業 「17T 業

□ 实时监控	3599320-b			System Parameters 1.
 ⑦ 并机监控 ~ 	基本配置	休眠设置		Here includes some basic
⑦ 基本参数 >>	读取 写入遗中	工厂供服	里泊	parameter information
系统设置	电池甲数(n)	16 建制化肥大机	启动间歇夺电	and dormancy settings.
系统参数	□ 剩余容量	BMS信息		
数据校准	満充容量	联和/BMS8时间 2021-10-2	5 20:19:32 同步系统时间	
外挂模块		产品信息	就取出的功能生	
普通遥控	总放电容量		1 武规厂家信息	
在线升级	总充 KWH		200	
	□ 总放 KWH	软件版本 1.1	3.1	
	BMS SN条码	Boot版本 1	A	
	Pack SN条码	换电配置		
PCB 条码: DM BMS 版本: DR 通信: 闩床椅	清除记录	SHOL	写入进中	
 董遗遥控 在线升级 系统参数 1 ○ 历史数据 ④ 報助 PCB 条碍 DM BMS 版本 DR 	 总充 KWH 总放 KWH BMS SN级码 Pack SN级码 清除记录 	硬件类型 1 产品型号 HA 项目代码 24 软件版本 1.1 Boot版本 1	1 CREUTINES	

并机监控	序号	PACK	采集时间	EventRecord	总电压(V)	总电流(A)	充电累计次数	放电累计次数	充电深度	放电深度	real-time history data
基本参数	1	1	2002-00-00 01:00:02	退出放电	56.80	-2.20	0	1	0		and export data, and
系统设置	2	1	2002-00-00 01:00:02	总压过压保护	56.80	0.00	2	2	0	0	view basic data
历史数据	3	1	2002-00-00 01:00:01	系统上电	55.70	0.00	2	2	0	0	information of battery
	4	1	2002-00-00 01:00:02	单体过压保护	56.80	0.00	2	2	0	0	packs.
) 帮助	5	1	2002-00-00 01:00:02	总压过压保护	56.80	0.00	2	2	0	0	
	6	1	2002-00-00 01:00:01	系统上电	55.70	0.00	2	2	0	0	
	7	1	2035-04-03 00:16:36	总压欠压保护	0.00	0.00	0	0	0	0	
	8	1	2035-04-03 00:16:36	单体欠压保护	0.00	0.00	0	0	0	0	
	9	1	2035-04-03 00:16:34	NTC故障	0.00	0.00	0	0	0	0	
	10	1	2035-04-03 00:16:31	系统启动	0.00	0.00	0	0	0	0	
8	11	1	2035-04-03 00:14:57	系统启动	0.00	0.00	0	0	0	0	
集:已连接	12	1	2035-04-03 00:13:50	总压欠压保护	0.00	0.00	0	0	0	0	

9. List of Accessories

NO.	ITEM	PICTURE	QTY	Remarks
1	Battery Pack		1	
2	Parallel Power Cable		2	For 48V 100AH/120AH: 6 gauge cable 0.3M + SC25-8 connector For 48V 150AH/200AH: 4 gauge cable 0.4M + SC35-8 connector
3	Parallel Communication Cable	6	1	RJ45 cable 0.5M
4	Upper computer Connecting Cable		1	RJ45 to USB cable 2M
5	Screws		4	M8