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Description:		Model NO. :51.2V100Ah-4U	

储能电池组规格书

Energy storage battery pack specifications

电池型号: Battery Type: 51.2V100Ah-4U

客户名称: Customer Name:
客户确认: Customer Confirmation:
日期 Date: 2026.08.10

版本修正记录: Revision History:

版本 Revision	日期 Date	修正人 Originator	修正内容 Reason For Change

核准 Approved	审核 Reviewed	制订 Prepared

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1.范围 Scope

本规格书描述我司锂电池组有关参考技术指标及要求。
This specification describes the reference technical specifications and requirements for our lithium battery packs.

2.产品描述 Description and Model

- 2.1 电池类型 Battery Classification: 磷酸铁锂电池 LFP battery
- 2.2 电池型号 Battery Type: 51.2V100Ah-4U

3.电池组基本参数 Basic Characteristics

No.	项目 Item	规格 Specification
1.	电芯型号 Cell Model	3.2V-100Ah
2.	电芯串并方式 Array mode	16S1P
3.	额定容量 Nominal Capacity	100Ah (0.2C charge and 0.2C discharge)
4.	最低容量 Minimum Capacity	100Ah (0.2C charge and 0.2C discharge)
5.	瓦特小时 Watt Hour	5.12kWh
6.	额定电压 Nominal Voltage	51.2V
7.	电池内阻 Initial AC Impedance	IR≤0.5mΩ (at 1kHz after standard charge)
8.	充电电压 Charging Voltage	58.4V
9.	充电截止电流 Charging cut-off current	2A(0.02C)
10.	标准充电 Standard charging method	Constant Current20A Max Charge Current:100A
11.	充电限流功能 Charging limit function	10A
12.	放电截止电压 Discharge cut-off voltage	40V
13.	标准放电 Standard discharging method	Constant current of 50A
14.	BMS 最大持续放电电流 Maximum continuous discharge current	100A
15.	放电过流保护 Discharge overcurrent protection	一级 120A±5A(2s)/二级 125A(300mS)

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16.	并机使用 Parallel operation	最大 15 台 Max. 15 units	
17.	安装方式 Installation mode	机柜式安装 cabinet installation	
18.	循环寿命 Cycle Life	6000 cycles (0.5C charge ,0.5C discharge, capacity retention $\geq 80\%$)	
19.	通讯方式 communication mode	CAN\RS485\Bluetooth\WIFI	
20.	重量 Weight (kg)	45kg	
21.	尺寸 size	506*482*176mm	
22.	工作温度 Operating Temperature	Charging:-0°C~55°C	
		Discharging:-20°C~65°C	
23.	贮存温度 Storage Temperature	1 month: -20°C~65°C	
		6months: -20°C~45°C	
		1 year: 0°C~25°C	
24.	贮存相对湿度 Relative Humidity	65 $\pm$ 20%	
25.	出货容量 Delivery Capacity	SOC45% $\pm$ 10%	
26.	荷电保持能力与容量恢复能力 Charge retention and capacity recovery capability	电池标准充电后，常温搁置 28d 或 55°C搁置 7d，荷电保持率 $\geq 90\%$ ，容量恢复率 $\geq 90\%$ Standard charge the battery, and then put aside at room temperature for 28d or 55 °C for 7d, Charge retention rate $\geq 90\%$, Recovery rate of charge $\geq 90\%$	

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4.功能配置

功能 (Function)	配置 (Configuration)	功能 (Function)	配置 (Configuration)
支持串数 (Number of strings supported)	16S	RS485 通讯 (隔离) RS485 communication (isolated)	标配 (Standard option)
持续电流 (Continuous current)	100A	UART 接口 (隔离) UART interface (isolated)	不支持 (Not supported)
NTC 数量 (Number of NTC)	2 路内置, 4 路外置 (2 built-in, 4 external)	CAN 通讯 (CAN communication)	标配 (Standard option)
均衡功能 (Balance Function)	被动均衡 (Passive balance)	RS232 通讯 (RS232 Communication)	选配 (Optional)
UART 接口 (非隔离) UART (non-isolated)	标配 (Standard option)	加热膜功能 (Heating function)	选配 (Optional)
开关功能 (Switch function)	选配 (Optional)	蓝牙模块&WiFi (Module of Bluetooth)	选配 (Optional)
充电限流功能 (Charging current limit)	标配 (10A) (Standard option 10A)	电池组串联 (Battery packs in series)	不支持 (Not supported)
电池组并联 (Battery packs in parallel)	支持 (Supported)	二次保护功能 (Secondary protection)	标配 (Standard option)
履历 (History storage)	支持 (Supported)	LCD 显示屏 (LCD display)	选配 (Optional)
预放电功能 (Pre-discharge function)	标配 (Standard option)	LED 指示灯接口 (Interface of LED indicator)	标配 (Standard option)
蜂鸣器 (Buzzer)	选配 (Optional)	4G+GPS 功能 (4G+GPS function)	不支持 (Not supported)

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5.BMS Specification

功能名称 (Function name)	项目 (Project)	规格 (Specification)			单位 (Unit)
		最小值 MIN	典型值 TYP	最大值 MAX	
单体过压 Cell Over Voltage	告警值 (COV alarm value)		3650	3670	mV
	告警恢复值 (COV alarm release value)	3380	3400	3420	mV
	告警延时 (COV alarm delay)	1000	3000	5000	mS
	保护值 (COV protect value)	3730	3750	3770	mV
	保护恢复值 (COV protect release value)	3380	3400	3420	mV
	保护延时 (COV protect delay)	1000	3000	5000	mS
	过充保护释放条件 (Over-voltage release conditions)	电压自恢复或放电恢复 (Self-recovery by reduced voltage or discharging)			
单体过欠压 Cell Under Voltage	告警值 (CUV alarm value)	2680	2700	2720	mV
	告警恢复值 (CUV alarm release value)	2880	2900	2920	mV
	告警延时 (CUV alarm delay)	1000	3000	5000	mS
	保护值 (CUV protect value)	2480	2500	2520	mV
	保护恢复值 (CUV protect release value)	2980	3000	3020	mV
	保护延时 (CUV protect delay)	1000	3000	5000	mS
	过放保护释放条件 (Under-voltage release conditions)	电压自恢复或充电恢复 (Self-recovery by increasing voltage or charging)			
总压过压 Battery Over Voltage	告警值 (BOV alarm value)	58.35	58.40	58.45	V
	告警恢复值 (BOV alarm release value)	56.45	56.50	56.55	V
	告警延时 (BOV alarm delay)	1000	3000	5000	mS
	保护值 (BOV protect value)		59.00	59.05	V
	保护恢复值 (BOV protect release value)	54.35	54.40	54.45	V
	保护延时 (BOV protect delay)	1000	3000	5000	mS
	过充保护释放条件 (Over-voltage release conditions)	电压自恢复或放电恢复 (Self-recovery by reduced voltage or discharging)			
总压欠压 Battery Under Voltage	告警值 (BUV alarm value)	41.95	42.00	43.05	V
	告警恢复值 (BUV alarm release value)	47.95	48.00	48.05	V
	告警延时 (BUV alarm delay)	500	1000	3000	mS
	保护值 (BUV protect value)	39.95	40.00	40.05	V
	保护恢复值 (BUV protect release value)	47.95	48.00	48.05	V
	保护延时 (BUV protect delay)	1000	3000	5000	mS
	过放保护释放条件 (Under-voltage release conditions)	电压自恢复或充电恢复 (Self-recovery by increasing voltage or charging)			
	告警值 (OCC alarm value)	100.0	105.0	110.0	A
	告警恢复值 (OCC alarm release value)	95.0	100.0	105.0	A

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充电过流 Over current Charge	告警延时 (OCC alarm delay)	1000	2000	4000	mS
	过流 1 保护值 (OCC1 protect value)	115. 0	120. 0	125. 0	A
	过流 1 级保护延时 (OCC1 protect delay)	1000	2000	4000	mS
	过流 2 保护值 (OCC2 protect value)	125. 0	130. 0	135. 0	A
	过流 2 级保护延时 (OCC2 protect delay)	250	500	1000	mS
	过流恢复释放条件 (Over current charge release conditions)	1.10min 尝试自动恢复 (Automatic recovery after a delay of 10 minutes) 2.放电恢复 (Discharging)			
放电过流 Over current discharge	告警值 (OCD alarm value)	100. 0	105. 0	110. 0	A
	告警恢复值 (OCD alarm release value)	95. 0	100. 0	105. 0	A
	告警延时 (OCD alarm delay)	1000	2000	4000	mS
	过流 1 保护值 (OCD1 protect value)	115. 0	120. 0	125. 0	A
	过流 1 级保护延时 (OCD1 protect delay)	1000	2000	4000	mS
	过流 2 保护值 (OCD2 protect value)	135. 0	140. 0	145. 0	A
短路保护 Short Circuit Discharge	过流 2 级保护延时 (OCD2 protect delay)	100	200	1000	mS
	过流锁定次数 (OCD2 lock times)	-	3	-	次
	过流恢复释放条件 (Over current charge release conditions)	延时 1 min 后自动恢复或充电恢复 (Automatic recovery after a delay of 1 minute or charging)			
	短路保护电流 (Short circuit protection current value)	/	1000	/	A
	短路保护延时 (Short circuit protection delay time)	/	400uS	/	uS
	短路保护恢复 (Short circuit protection recovery)	延时 1 min 后自动恢复, 3 次后锁定或充电恢复 (Automatic recovery after a delay of 1 min, locks after three times or charging)			
充电高温 Over temperature Charge	短路功能测试条件: 外接短路电阻 80~100 毫欧空开测试。 (Short circuit protection function test condition: 80 mΩ < external load < 100 mΩ , connect air circuit breaker for test.)				
	短路说明 1: 用我司内部电芯测试有短路保护, 批量前请客户端务必提供实际应用电池组做短路测试, 建议按实际应用环境进一步评估。 (Short-circuit description: Use our internal battery cells to test for short-circuit protection. Before bulk production, please ensure that the client provides the actual application battery pack for short-circuit testing. It is recommended to further evaluate according to the actual application environment.)				
	短路说明 2: 短路电流小于最小值或高于最大值可能会造成短路保护失效, 短路电流超过 2000A, 不保证有短路保护, 也不建议做短路保护测试。 (Short-circuit description: The short-circuit current is less than the minimum value or higher than the maximum value, which may cause the short-circuit protection to fail, and the short-circuit current exceeds 2000A, short-circuit protection is not guaranteed, and short-circuit protection testing is not recommended.)				
	告警值 (OTC alarm value)	52	55	58	℃
	告警恢复值 (OTC alarm release value)	47	50	53	℃
	告警延时 (OTC alarm delay)	1000	3000	5000	mS

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Over temperature charge	保护值 (OTC protect value)	62	65	68	°C
	保护恢复值 (OTC protect release value)	47	50	53	°C
	保护延时 (OTC protect delay)	1000	3000	5000	mS
充电低温 Under temperature charge	告警值 (UTC alarm value)	2	5	8	°C
	告警恢复值 (UTC alarm release value)	7	10	13	°C
	告警延时 (UTC alarm delay)	1000	3000	5000	mS
	保护值 (UTC protect value)	-3	0	3	°C
	保护恢复值 (UTC protect release value)	2	5	8	°C
	保护延时 (UTC protect delay)	1000	3000	5000	mS
放电高温 Over temperature discharge	告警值 (OTD alarm value)	52	55	58	°C
	告警恢复值 (OTD alarm release value)	47	50	53	°C
	告警延时 (OTD alarm delay)	1000	3000	5000	mS
	保护值 (OTD protect value)	62	65	68	°C
	保护恢复值 (OTD protect release value)	47	50	53	°C
	保护延时 (OTD protect delay)	1000	3000	5000	mS
放电低温 Under temperature discharge	告警值 (UTD alarm value)	-18	-15	-12	°C
	告警恢复值 (UTD alarm release value)	-13	-10	-7	°C
	告警延时 (UTD alarm delay)	1000	3000	5000	mS
	保护值 (UTD protect value)	-23	-20	-17	°C
	保护恢复值 (UTD protect release value)	-18	-15	-12	°C
	保护延时 (UTD protect delay)	1000	3000	5000	mS
FET 高温保护 (内置) Over temperature	告警值 (OTM alarm value)	92	95	98	°C
	告警恢复值 (OTM alarm release value)	77	80	83	°C
	告警延时 (OTM alarm delay)	1000	3000	5000	mS
	保护值 (OTM protect value)	102	105	108	°C
protection of FET(Built-in)	保护恢复值 (OTM protect release value)	82	85	88	°C
	保护延时 (OTM protect delay)	1000	3000	5000	mS
环境高温 (内置) Over temperature protection of the	告警值 (OTE alarm value)	57	60	63	°C
	告警恢复值 (OTE alarm release value)	47	50	53	°C
	告警延时 (OTE alarm delay)	1000	3000	5000	mS
	保护值 (OTE protect value)	62	65	68	°C
	保护恢复值 (OTE protect release value)	57	60	63	°C

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environment (Built-in)	保护延时 (OTE protect delay)	2000	3000	4000	mS
环境低温 (内置) Under temperature protection of environment(Built-in)	告警值 (UTE alarm value)	-18.0	-15.0	-12.0	°C
	告警恢复值 (UTE alarm release value)	-13.0	-10.0	-7.0	°C
	告警延时 (UTE alarm delay)	1000	3000	5000	mS
	保护值 (UTE protect value)	-23.0	-20.0	-17.0	°C
	保护恢复值 (UTE protect release value)	-18.0	-15.0	-12.0	°C
	保护延时 (UTE protect delay)	1000	3000	5000	mS
压差过大 Over voltage differentials	告警值 (VDIFF alarm value)	550	600	650	mV
	告警恢复值 (VDIFF alarm release value)	450	500	550	mV
	告警延时 (VDIFF alarm delay)	1000	2000	4000	mS
	保护值 (VDIFF protect value)	750	800	850	mV
	保护恢复值 (VDIFF protect release value)	450	500	550	mV
	保护延时 (VDIFF protect delay)	1000	2000	4000	mS
SOC 过低 Under SOC	告警值 (LSOC alarm value)	/	10	/	%
	告警恢复值 (LSOC alarm release value)	/	15	/	%
	告警延时 (LSOC alarm delay)	1000	2000	4000	mS
均衡功能 Balance Function	均衡开启电压 (Balance function turn-on voltage)	3.38	3.40	3.42	V
	开启压差 (Difference opening voltage value)	/	30	/	mV
	均衡电流 (Balance current)	20	60	80	mA
	均衡模式 (Balance model)	静态均衡/充电均衡 (Idle equalization/charging equalization)			
	均衡类型 (Balance type)	脉冲模式 (Pulsed model)			

注：测试需在温度 $25\pm 2^{\circ}\text{C}$ 、相对湿度 $65\pm 20\%$ 的环境中进行。

Note: The test should be conducted at temperature $25\pm 2^{\circ}\text{C}$ and relative humidity $65\pm 20\%$ of the the surroundings.

6.可靠性参数 Reliability parameter

序号 (No.)	参数名称 (Parameter Name)	检测规格 (specific ation)
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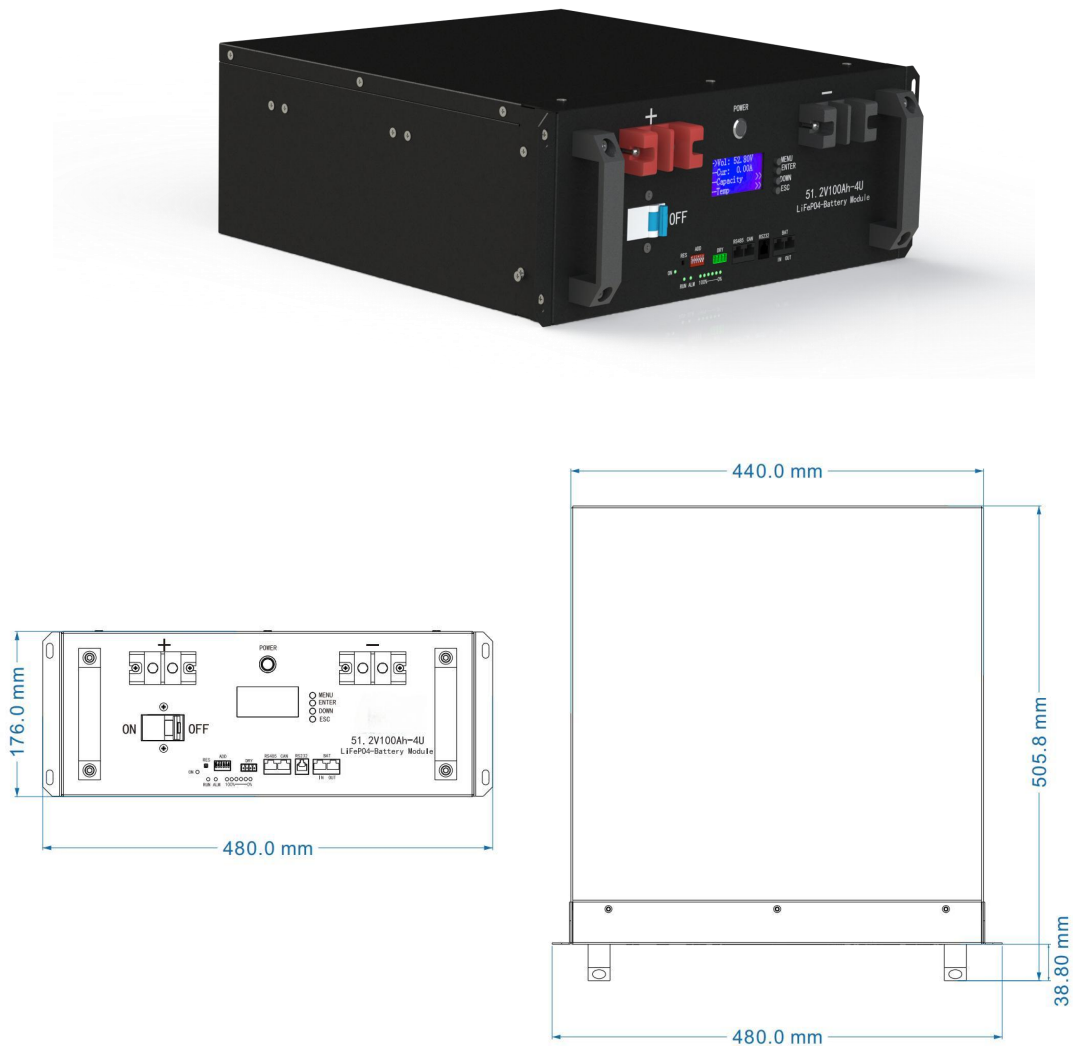
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1	检测精度 Detection precision	电流精度: $\pm 2\%$ 单体电压精度: $\pm 10\text{mV}$ 温度精度: $\pm 3^{\circ}\text{C}$ Current accuracy: $\pm 2\%$, Cell voltage accuracy: $\pm 10\text{mV}$, Temperature accuracy: $\pm 3^{\circ}\text{C}$.
2	电流阈值 Current threshold	充电电流: 0.8A 放电电流: 0.8A Charging current: 0.8A Discharging current: 0.8A
3	失效类型 Failure types	电压检测失效、温度检测失效、充放电 MOS 故障 Voltage detection failure, temperature detection failure, charge and discharge MOS failure.
4	历史记录 History	支持存储 500 条历史数据信息, 包含数据总电压、电流、温度、MOS 状态、SOC、SOH、循环次数等 Supports the storage of 500 pieces of historical data information, including total voltage, current, temperature, MOS status, SOC, SOH, and cycle times
		CAN1 通信: 外接逆变器 CAN 通信接口, 支持多种逆变器协议, 可通过上位机或屏幕选择协议, 波特率 500K.
5	通信接口 Communication interface	CAN1 : Communication with PCS, support a variety of PCS protocols, can be selected through the host computer or LCD screen, baud rate 500K. RS485_1 通信: 外接逆变器 RS485 通信接口, 支持多种逆变器协议, 可通过上位机或屏幕选择协议, 可连接上位机, 默认波特率 9600。 RS485_1 : Communication with PCS, support a variety of PCS protocols, can be selected through the host computer or LCD screen, can be connected to the host , baud rate 9600. CAN2&RS485_2 通信: 并机通信接口, 可连接上位机, 默认波特率 19200. CAN2&RS485_2:Parallel communication interface, can be connected to the host computer, the default baud rate is 19200.
6	开机 Power on	➤ 系统处于掉电模式下, 闭合自锁开关, 保护板上电启动, LED 指示灯从“LED1”开始依次点亮 0.5 秒。 When the system is in power off mode, close the self-locking switch, power on the protection board, and turn on the LED indicator for 0.5 seconds from "LED1". ➤ 系统处于休眠模式下, 按下复位开关, 按下按键 (1S) 后松开, 保护板被激活, LED 指示灯从“LED1”开始依次点亮 0.5 秒。 ➤ When the system is in sleep mode, press the reset switch, press the button (1S), and release it. The protection board is activated, and the LED indicator lights up successively from "LED1" for 0.5 seconds.

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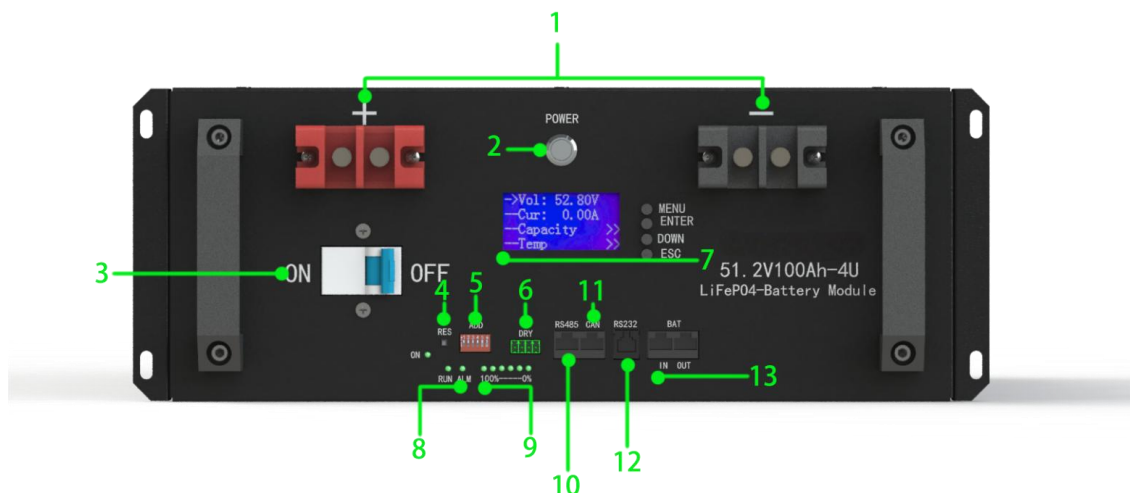
7	关 机 Power off	▶ 系统处于运行状态下，按下按键（3~6S）后，LED 指示灯从最低电量灯开始依次点亮 0.5 秒，松开后，系统进入休眠状态。 ▶ When the system is running, press the button for 3 to 6 seconds. The LED indicator will turn on for 0.5 seconds from the lowest battery indicator.After release, the system goes to sleep. ▶ 系统处于运行状态下，断开自锁开关，1S~3S 后，系统进入掉电状态。 ▶ Turn off the self-locking switch when the system is running. Wait for 1S to 3S before the system enters the power failure state.
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7.产品图 Product drawing



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Item	Name	Function
1	正负极 Terminals (P+, P-)	连接到电源线上，进行充放电 Connect to power wires for charging and discharging
2	开关机状态 ON/OFF	电池开关指示灯 Battery switch indicator
3	断路器 Circuit breaker	控制电池组正极与外部断开或导通，有过载保护功能 Controls the connection between the battery pack's positive terminal and the external circuit to either disconnect or connect it, featuring overload protection functionality.
4	复位键 RESET	重置电池系统 Reset the battery system
5	拨码器 ADS	指定每个电池的 DIP 地址 Assign DIP address of each battery
6	干节点 DRY CONTACT	用开关来控制外部设备，如发电机等。 Switches to control the external equipment, such as generators, etc.
7	LCD 显示屏	实时查看电池组信息 View battery pack information in real time
8	运行灯 ALM\RUN	查看电池组运行状态 Check the battery pack's operating status
9	容量指示灯 CHARGE	电池可用容量指示灯 Battery available capacity indicator
10	RS485	上位机、逆变器与电池通讯端口

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		Upper-level computer, inverter, and battery communication ports
11	CAN	逆变器与电池通讯端口 CAN communication port
12	RS232	拓展通讯端口 Run the reserved interface in parallel
13	BAT IN\OUT	电池并机使用时电池与电池通讯端口 Parallel port RS485 for battery parallel communication

8、包装 pack

包装方式 Packing method:



9.储存条件 Storage conditions:

电池组需长期贮存时，请将电池组充电至60%左右的电量，放置于干燥、通风处，每三个月取出电池对电池组进行充电，保持SOC在60%左右。

When the battery pack needs to be stored for an extended period, please charge the battery pack to approximately 60% capacity, store it in a dry and well-ventilated location, remove the individual batteries every three months to recharge the battery pack, and maintain the State of Charge (SOC) at around 60%.

电池组与充电器应贮存在清洁、干燥、通风处，应避免与腐蚀性物质接触，远离火源及热源。
The battery pack and charger should be stored in a clean, dry and ventilated place, avoid contact with corrosive materials and be away from fire and heat.

10.产品责任

* 本公司对违反本规格书规定操作而导致的意外不负任何责任；

We assume no responsibility for the accident of not operating in accordance with the
制造商保留在没有预先通知的情况下改变和修正设计及规格说明书的权力

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specification.

* 如果规格书、原材料、生产过程或生产控制系统发生改变，改变的信息将会随质量和可靠性数据以书面形式通知客户。

Specifications, raw materials, production process or production control system is changed, the change will vary depending on the quality and reliability of data written notice to the customer.

11.使用电池注意事项 Battery Handling Precautions

- 勿将电池组投入水中或将其浸湿！
Forbid to immerse the battery in water or allow it to get wet!
- 禁止在火源或极热条件下给电池组充电！勿在热源（如火或加热器）附近使用或贮存电池组！如果电池泄漏或发出异味，应立即将其从接近明火处移开。第一次使用电池，需将电池充满电后再使用！
Don't charge, use, and store the battery near a heat source such as fire and heaters! If the battery leaks or releases a strange odor, please remove it from the place near a fireplace immediately. Fully charge the battery before first-time use.
- 勿将正负极接反！ Forbid to reverse the positive and negative poles!
- 勿将电池组投入火中或给电池组加热！
Forbid to throw the battery pack into fire or heat it!
- 禁止用导线或其他金属物体将电池组正负极短路！
Forbid to short-circuit the battery with wire or other metal objects!
- 禁止用钉子或其他尖锐物体刺穿电池组壳体，禁止锤击或脚踏电池组！
Forbid to nail, knock, or trample the battery!
- 禁止以任何方式分解电池组和电池！
Forbid to disassemble the battery and battery pack in any way!
- 禁止将电池组置于微波炉或压力容器中！
Forbid to put the battery into a microwave oven or pressure vessel!
- 如果电池组发出异味、发热、变形、变色或出现其他任何异常现象时不得使用；如果电池组正在使用或充电，应立即从用电器或充电器上取出并停止使用！
If the battery pack gives off an odor, gets hot, deformation, discoloration, or exhibits any abnormal phenomenon, stop using it; please remove the battery from electrical appliances and stop using it when the battery is being used or charged!
- 不能使用处于极热环境中的电池组，如阳光直射或热天的车内。否则，电池组会过热，这样就会影响性能、缩短电池组的使用寿命！
Forbid to use battery pack in a very hot environment, such as under direct sunlight or in a car on a hot day. Otherwise, the battery pack will overheat, which will affect battery performance and shorten battery life!
- 如果电池漏液后电解液进入眼睛，不要擦，应立即用水冲洗，立即寻求医疗救助。如不及时处理，眼睛将会受到伤害！
If the battery leaks and electrolyte leakage enters the eyes, do not rub, rinse with water immediately, and seek immediate medical assistance. If not in time, the eyes will be hurt!
- 环境温度会影响放电容量，环境温度超出标准环境时（ $25\pm 5^{\circ}\text{C}$ ），放电容量会有所降低！
Ambient temperature will affect the discharge capacity, if the ambient temperature is beyond the standard environment (25 ± 5), $^{\circ}\text{C}$ the discharge capacity will drop!

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特别注意事项 Special Considerations:

- 电池组在充电过程中，如果出现异味、异常声响，请立即停止充电。
During charging, if there is an odor and unusual noise, immediately stop charging.
- 电池组在放电过程中，如果出现异味、异常声响，请立即停止放电。
During discharging, if there is an odor or unusual noise, immediately stop charging.
- 如果出现上述现象，请与厂家联系，请勿私自拆卸。
If the above phenomenon occurs, please contact the manufacturer, do not disassemble by yourself.