

 Lvwo	Specification	Versions	A0
		Date	Aug. 22, 2023
		DOC No:	
Address: Economic Development Zone of Hangbu town, Shucheng County, Lu'an, China			
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25.6V100Ah 产品规格书

25.6V100Ah Specification

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一、电池系统设计参考技术文件

Battery system design reference technical documents

- GB 2894 安全标志 Safety signs (neq ISO 3864: 1984)
- GB 16179 安全标志使用导则 Guidelines for the use of safety marks
- GB 8897.4-2008 原电池第4部分 锂电池的安全要求 Part 4 Safety requirements for lithium batteries
- GB 21966-2008 锂原电池和蓄电池在运输中的安全要求 Safety requirements for lithium primary batteries and storage batteries in transportation
- GJB 4477-2002 锂离子蓄电池组通用规范 General specification for lithium-ion battery pack

二、供货清单 Listing of supply

序号 No.	名称 name	单位 unit	数量 quantity	备注 remark
1	25.6V100Ah 电池 25.6V100Ah battery	pcs	1	

三、电池系统使用要求 battery systems use requirement

1. 电池系统工作外部环境温度要求：充放电： $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$ ； Battery system operating external environment temperature requirements: charge and discharge: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$;
2. 电池系统工作外部环境湿度要求： $10\% \leq \text{湿度} \leq 90\% \text{RH}$ ； The ambient humidity of the battery system is $10\% \leq \text{humidity} \leq 90\% \text{RH}$.
3. 电池系统运营状态下尽量保持 20% 以上的 SOC； Try to maintain more than 20% SOC in the operating state of the battery system;
4. 电池系统短期不使用的状态下，要求保持 60% 以上的 SOC，存储在 $5^{\circ}\text{C} \sim 45^{\circ}\text{C}$ 干燥、清洁及通风良好的仓库内。
When the battery system is not in use for a short period of time, it is required to maintain more than 60% SOC and store it in a dry, clean and well-ventilated warehouse between 5°C and 45°C .
5. 电池包装过程中，要求轻搬轻放，严防摔掷、翻滚、撞击； In the process of battery packing, it is required to move lightly to prevent dropping, tumbling and impact;
6. 存储状态下不得倒置、卧放；严禁将电池包长期暴晒、淋雨、泡水； Do not invert or lie down in the storage state; Do not expose the battery pack to sunlight, rain, or water for a long time.
7. 保证电池系统在运营或存储状态下远离易燃易爆物品、高温环境； Keep the battery system away from flammable and explosive materials and high temperature environment during operation or storage;
8. 严禁在电池系统短路、过充、高温告警状态下强制运行； Do not forcibly run the battery system in the state of short circuit, overcharge, or high temperature.
9. 严禁客户在未经允许状态下对电池系统进行私自拆卸； Customers are strictly prohibited from disassembling the battery system without permission.

四、电池参数 Battery parameters

序号 sequence	项目 item	指标 index	备注 remark
1	电池类型 Battery type	磷酸铁锂电池 Lithium iron phosphate power battery	
2	额定电压/容量 Rated voltage / capacity	3.2V/100Ah (IFR SSYY100Ah)	
3	单体电池电压范围 Single-cell voltage range	2.5V-3.65V	
4	单体电池重量 Single battery weight	1975±50g	
5	尺寸 size	厚度: 26.6mm, 长度: 175mm, 高度: 206mm	
6	工作温度working temperature	充电charge -20℃-60℃; 放电discharge -20℃-60℃	
7	荷电保持能力 Charge power retention capacity	96% (25℃,28days)	
8	循环次数 cycle index	>2000次 (25℃快充 循环recurrence, 常温normal atmospheric temperature, 容量保持率capacity retention ratio: 80%)	

序号 sequence	项目 item	指标 index	备注 remark
电池系统参数Battery system parameters			
1	额定电压 Rated voltage	25.6V	
2	电池组电压范围 Battery voltage range	20~29.2V	
3	额定容量 Rated capacity	100Ah	
4	总能量 Total energy	2560Wh	
5	SOC 范围 SOC range	10%-100%	
6	充放电容量效率 Charge and discharge capacity efficiency	≥96%	
7	标准充电电流 (A) Standard charging current (A)	≤50A	
8	标准放电电流 (A) Standard discharge current (A)	≤50A	
9	最大持续充放电电流 (A) Maximum continuous charge and discharge current(A)	100A	
10	总重量 Gross weight	About 22KG	
11	环境相对湿度 Ambient relative humidity	10%~90%	
12	水尘防护标准 Water and dust protection standards	IP65	
13	电池系统充放电环境温度 Charging and discharging ambient temperature	充电 Charge: -10℃~60℃, 放电 Discharge: -20℃~60℃	
14	外壳材质 Case material	胶壳 Plastic shell	
15	端子类型 Terminal type	M8	
16	电池包组成方式 Battery pack composition method	8串1并组成, 共1个电池包 8S1P	
17	产品尺寸 (mm) Product dimension	522*238*218 (±2) mm (L*W*H)	
18	循环次数 Cycle index	≥4000	

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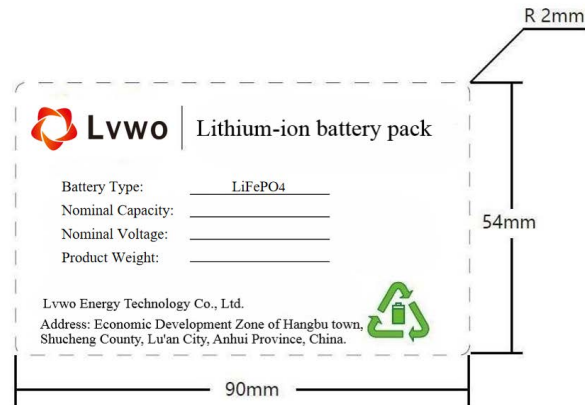
五、产品外形尺寸示意图 Schematic diagram of product external dimensions



电池组外型结构示意图
Schematic diagram of the external structure of the battery pack

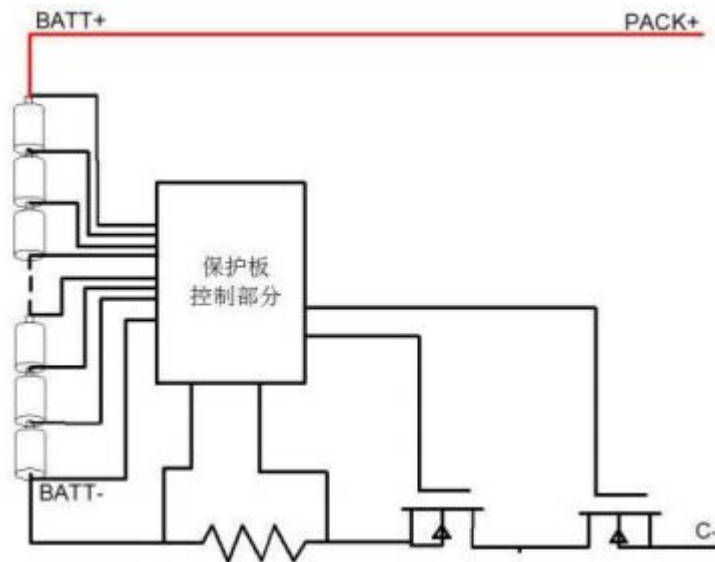
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六、警示标贴、铭牌 Warning labels and nameplates



七、保护板规格参数 Protection plate specification parameters

7.1、原理图框 Schematic box



八、充电器 Charger

1、磷酸铁锂电池专用充电器 Special charger for lithium iron phosphate battery

2、输入最高电压 $\leq 29.2V$ （单体电压 3.65V）

Input the maximum voltage of 29.2V (Unit voltage: 3.65V)