

Product Solution

Edition: V1.0

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Customer (客户) :

Battery model name (电池型号) : 48V100Ah-27135250-15S01P-A0

Applicable Products (适用产品):

Doc. No: (编号) : Spec-Pack-2827

Customer approval(客户承认)

Comment (备注):

Customer's signature/ Date(客户签名/日期) : _____

Approved 核准	Checked 审核	Prepared 制定

REVISION AND UPDATES 更改记录

REVISED 更改项目	DESCRIPTION 内容描述	Date 更改日期
1.0	New Issue	2019-6-12

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Declaration

1. The specification details the performance of the LiFePO₄ battery pack. Please read the specification carefully before operations and please abide by relevant industrial safety regulations. We will not be responsible for any damage to the product due to improper operations or use under conditions that are not prescribed in the specification.
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1. Product Specification (产品技术规格)

Table 1 (表 1)

No. (序号)	Item (项目)	General Parameter (常规参数)		Remark (备注)
1	Combination method (组合方式)	15S1P		
2	Rated Capacity (额定容量)	Typical (标称容量)	100Ah	Standard discharge after Standard charge (package) (标准充电后标准放电 (针对电池组))
		Minimum (最小容量)	98Ah	
3	Factory Voltage (出厂电压)	48-49.5V		Mean Operation Voltage (即工作电压)
4	Voltage at end of Discharge (放电终止电压)	37.5V		Discharge Cut-off Voltage (放电截止电压)
5	Charging Voltage (充电电压)	52.5-54.75V		
6	Internal Impedance (内阻)	$\leq 50m\Omega$		Internal resistance measured at AC 1KHz after 50% charge (半电态下用交流法测量内阻)
				The measure must uses the new batteries that within one week after shipment and cycles less than 5 times (使用出货后不到一个星期及循环次数少于 5 次的新电池测量)
7	Standard charge (标准充电)	Constant Current 20A Constant Voltage see No. 5 0.01CA cut-off 持续电流 20A 持续电压: 见序号 5 截止电流: 0.01CA)		Charge time : Approx 6 h (充电时间: 大约 6 个小时)
	Limiting current (限流充电)	20A		Software startup (软件启动)
8	Standard discharge (标准放电)	Constant Current 20A end voltage see NO. 4 持续电流 20A 截止电压: 见序号 4)		

 Package
 电池组

9	Maximum Continuous Charge Current (最大充电持续电流)	100A	100A when $T \geq 10^\circ\text{C}$ 50A when $10^\circ\text{C} > T \geq 0^\circ\text{C}$
10	Maximum Continuous Discharge Current (最大放电持续电流)	100A	
11	Operation Temperature Range (工作温度范围)	Charge: $0 \sim 45^\circ\text{C}$ Discharge: $-20 \sim 55^\circ\text{C}$	$60 \pm 25\% \text{R.H.}$ Bare Cell (单体电池储存湿度范围)
12	Storage Temperature Range (储存温度范围)	Less than 12 months : $-10 \sim 35^\circ\text{C}$ (小于 12 月: $-10 \sim 35^\circ\text{C}$) less than 3 months: $-10 \sim 45^\circ\text{C}$ (小于 3 个月: $-10 \sim 45^\circ\text{C}$) Less than 7 day : $-20 \sim 65^\circ\text{C}$ (小于 7 天: $-20 \sim 65^\circ\text{C}$)	$60 \pm 25\% \text{R.H.}$ at the shipment state (出货状态时的湿度范围)
13	Dimensions (尺寸)	442*400*221mm	Include case
14	Weight (重量)	43 kg	Include case
15	Volumetric specific energy (体积比能量)	123 WH/L	Include case
16	Gravimetric specific energy (质量比能量)	112 WH/KG	Include case

The BMS have all functions which are : (该 BMS 系统具有以下一些功能)

- overcharge detection function (过充电保护功能)
- over discharge detection function (过放电保护功能)
- over current detection function (过电流保护功能)
- short detection function (短路保护功能)
- Temperature detection function (温度保护功能)
- balance function (均衡功能)
- communicate function (通讯功能)
- Alarm function (告警功能)
- Total capacity function (总容量功能)
- Storage history function (存储历史记录功能)
- Dry contact function (干接点功能)
- Current limiting function 限流功能

2. Product appearance of Battery Pack

