

## 高压堆叠储能电池系统规格书

# Specification for High-Voltage Stacked Energy Storage Battery System



制作 make	审核 audit	批准 approval
曾学良	邓子绍	潘涛

This energy storage equipment and its full finished assembly are \*\*manufactured in the People's Republic of China\*\*.



<b>JEESENG</b>	江门极晟能源有限公司	文件编号 File No:	
		文件版本 File version:	A/0
	Jiangmen Jeeseng Energy Co.,Ltd.	页码 Page number:	3/13

## 目录

产品规格书 .....	1
1. 产品概述/Product description.....	4
2. 尺寸/Dimensions .....	4
3. 电池组常规技术参数/General technical parameters of battery pack .....	5
4. BMS 保护参数表/ BMS Protection Parameter Table.....	6
5. 电性能、安全性能、机械性能测试/ Electrical performance, safety performance, mechanical performance test.....	7
6. 机械性能/Mechanical behavior.....	9
7. 产品贮存及运输/Product storage and transportation.....	10
8. 产品使用注意事项/Precautions for product use .....	11
9. 保修与售后服务/Warranty and After-sales Service.....	13

<b>JEESENG</b>	<b>江门极晟能源有限公司</b>	文件编号 File No:	
		文件版本 File version:	A/0
	<b>Jiangmen Jeeseng Energy Co.,Ltd.</b>	页码 Page number:	4/13

## 1. 产品概述/Product description

本产品为极晟能源有限公司设计制造的磷酸铁锂电池系统（含 BMS），系统可用于离网系统和并网系统，适用于家庭用户、小型农业、小型商业和电动汽车充电等多种应用场景。

This product is a lithium iron phosphate battery system (including BMS) designed and manufactured by Jisheng Energy Co., Ltd. The system can be used in off-grid and grid-connected systems, and is suitable for various application scenarios such as household users, small agriculture, small businesses, and electric vehicle charging.

## 2. 尺寸/Dimensions

说明书型号/Model:	净重 KG	裸机尺寸 mm
JEEDDMK512100-1	54.0 (Approx.)	(600.1±5) × (491.5±5) × (208.9±5)
JEEDDMK512100-2	51.5 (Approx.)	(600.1±5) × (491.5±5) × (194.5±5)
JSDD-100A	20	600*491.5*159
JEEDD-358100	403.85	600.1 × 491.5 × 1411
JEEDD-307100	349.55	600.1 × 491.5 × 1234
JEEDD-254100	295.25	600.1 × 491.5 × 1057
JEEDD-204100	240.95	600.1 × 491.5 × 880
JEEDD-153100	186.65	600.1 × 491.5 × 703

<b>JEESENG</b>	<b>江门极晟能源有限公司</b>			文件编号 File No:	
				文件版本 File version:	A/0
	<b>Jiangmen Jeeseng Energy Co.,Ltd.</b>			页码 Page number:	5/13

### 3. 电池组常规技术参数/General technical parameters of battery pack

Model:	JEEDD-153100	JEEDD-204100	JEEDD-254100	JEEDD-307100	JEEDD-358100
Battery input/output terminal parameters:					
Battery module model	JEEDDMK512100-1, JEEDDMK512100-2				
Battery module model	3	4	5	6	7
Battery type	LiFePO4				
Rated capacity	100 Ah				
Energy capacity	15.36 kWh	20.48 kWh	25.60 kWh	30.72 kWh	35.84 kWh
Rated DC Power	11.5KW	15.4KW	19.2KW	23.0KW	26.9KW
Usable battery capacity	14.28KWH	19.04 kWh	23.8 kWh	28.56 kWh	33.33 kWh
Depth of discharge	94%(25°C,0.2C)	94%(25°C,0.2C)	94% ( 25 °C , 0.2C)	94%(25°C,0.2C)	94%(25°C,0.2C)
Rated voltage	153.6 Vd. c.	204.8 Vd. c.	256.0 Vd. c.	307.2 Vd. c.	358.4 Vd. c.
Battery voltage range	136.8-168Vd. c.	182.4~224Vd. c.	228~280Vd. c.	273.6-336Vd. c.	319.2~392Vd. c.
Maximum continuous charging power	11.5 kW	15.4 kW	19.2 kW	23.0 kW	26.9 kW
Maximum continuous charging current	75Ad. c	75Ad. c	75Ad. c	75Ad. c	75Ad. c
Maximum continuous discharging power	11.5 kW	15.4 kW	19.2 kW	23.0 kW	26.9 kW
Maximum continuous discharging current	75Ad. c	75Ad. c	75Ad. c	75Ad. c	75Ad. c
General					
Operating temperature range	5~45° C				
Protection class	Class 1				
Ingress protection	IP54				

<b>JEESENG</b>	<b>江门极晟能源有限公司</b>	文件编号 File No:	
		文件版本 File version:	A/0
	<b>Jiangmen Jeeseng Energy Co.,Ltd.</b>	页码 Page number:	6/13

#### 4. BMS 保护参数表/ BMS Protection Parameter Table

Charging current protection value for battery 充电过流	80A, 3s
Discharging current protection value for battery 放电过流	80A, 3s
High-temperature protection for charging 充电高温	52° C, 3s
Low-temperature protection for charging 充电低温	4° C, 3s
High-temperature protection for discharging 放电高温	52° C, 3s
Low-temperature protection for discharging 放电低温	-15° C, 3s
Overvoltage of single battery charging 单体充电过压	3.52V/cell, 3s
Single discharge undervoltage 单体放电欠压	2.85V/cell, 3s

<b>JEESENG</b>	<b>江门极晟能源有限公司</b>	文件编号 File No:	
		文件版本 File version:	A/0
	<b>Jiangmen Jeeseng Energy Co.,Ltd.</b>	页码 Page number:	7/13

## 5. 电性能、安全性能、机械性能测试/ Electrical performance, safety performance, mechanical performance test

<p>荷电保持能力（残余容量）和容量恢复能力 Charge retention capability (residual capacity) and capacity recovery capability</p>	<p>电池组标准充放电后，记录初始容量；电池标准充电后，在 20~25℃的条件下搁置 28d，然后放电记录残余容量；在将电池进行标准充电，记录恢复容量。</p> <p>Record the initial capacity after standard charge and discharge of the battery pack; store the battery at a temperature of 20~25℃ for 28 days after standard charge and discharge to record residue capacity; record recovery capacity after standard recharge and re-discharge of the battery.</p>	<p>残余容量（荷电保持率）≥ 95% 恢复容量 ≥ 97% Residue capacity (charge retention rate) ≥ 95% Recovery capacity ≥ 97%</p>
<p>常温循环寿命 Normal temperature cycle life</p>	<p>常温下，循环测试以 0.5C 电流充电至 100%SOC，0.6C 放电至 10%SOC (90%DOD)，小于初始容量 70%时终止测试。</p> <p>At room temperature, the cycle test is charged to 100% SOC at 0.5C, and discharged to 10% SOC (90% DOD) at 0.6C, and the test is terminated when it is less than 70% of the initial capacity.</p>	<p style="color: red;">≥3000 次 ≥3000 times</p>
<p>质保 Warranty</p>	<p>寿命终止条件：连续 3 次充放电，放电容量均达不到 70%DOD。环境温度 20~25℃。</p> <p>电池组若需拆卸，需供方书面同意方可拆卸；如果没经供方同意私自拆卸电池组造成的不良后果供方不承担责任。</p> <p>End-of-life conditions: 3 times of continuous charge and discharge, the discharge capacity is less than 70% DOD. The ambient temperature is 20~25℃.</p> <p>If the battery pack needs to be disassembled, it can only be dismantled with the written consent of the supplier; if the battery pack is</p>	<p>10 年 10 years</p>

<b>JEESENG</b>	江门极晟能源有限公司	文件编号 File No:	
		文件版本 File version:	A/0
	Jiangmen Jeeseng Energy Co.,Ltd.	页码 Page number:	8/13

	<p>disassembled without the consent of the supplier, the supplier shall not be liable for the adverse consequences.</p>	
--	---	--

<b>JEESENG</b>	<b>江门极晟能源有限公司</b>	文件编号 File No:	
		文件版本 File version:	A/0
	<b>Jiangmen Jeeseng Energy Co.,Ltd.</b>	页码 Page number:	9/13

## 6. 机械性能/Mechanical behavior

振动 vibration	<p>将整组包装完整待出货试验品放置于振动台面上，以 10~90HZ 来回扫描振动 5H，扫描速度为 1HZ/S, 分别以前后，上下，左右六个面扫描振动；振动完成检查内部和外部包装，并对电池组进行检查和标准充放电测试。</p> <p>Place the whole package of the test products to be shipped on the vibrating table, scan and vibrate back and forth at 10~90HZ for 5H, the scanning speed is 1HZ/S, and scan and vibrate on the front, back, up and down, left and right sides respectively; vibration inspection is completed Internal and external packaging and inspection and standard charge and discharge tests for the battery pack.</p> <p>将电池组放置于振动台面上，以 10~90HZ 来回扫描振动 5H，扫描速度为 1HZ/S, 分别以前后，上下，左右六个面扫描振动；振动完成后对电池组进行检查并进行标准充放电；Place the battery pack on the vibrating table, scan and vibrate back and forth at 10~90HZ for 5H, the scanning speed is 1HZ/S, and scan and vibrate on the front, back, up and down, left and right sides respectively; after the vibration is completed, check the battery and make a standard Discharge;.</p>	<p>内部包装部件无破损，电池组无变形破损及任何安全隐患；放电容量≥99%标称容量</p> <p>The internal packaging components are not damaged, the battery pack is not deformed or damaged or any potential safety hazards; the discharge capacity is ≥99% of the nominal capacity</p> <p>电池组外部无变形破损； 放电容量≥99%标称容量</p> <p>There is no deformation or damage on the outside of the battery pack; Discharge capacity ≥99% of nominal capacity</p>
-----------------	---	--

<b>JEESENG</b>	江门极晟能源有限公司	文件编号 File No:	
		文件版本 File version:	A/0
	Jiangmen Jeeseng Energy Co.,Ltd.	页码 Page number:	10/13

## 7. 产品贮存及运输/Product storage and transportation

### 7.1.产品贮存/ Product storage

产品长期存放不使用时，请放置于干燥通风处，避开易燃易爆物品；每三个月定期对电池组进行充点电维护，确保电池处于最佳性能状态。

When the product is not in use for a long time, please place it in a dry and ventilated place to avoid inflammable and explosive materials; regularly charge and maintain the battery pack every three months to ensure that the battery is at peak performance.

### 7.2.产品运输/Product Shipment

电池组应经过外部包装后才能运输，在运输过程中应防止剧烈震荡、冲击或挤压，防止日晒雨淋。

The battery pack can only be transported after external packaging. During transportation, it should be prevented from violent shock, impact or extrusion, and protected from the sun and rain.

<b>JEESENG</b>	<b>江门极晟能源有限公司</b>	<b>文件编号</b> <b>File No:</b>	
		<b>文件版本</b> <b>File version:</b>	A/0
	<b>Jiangmen Jeeseng Energy Co.,Ltd.</b>	<b>页码</b> <b>Page number:</b>	11/13

## 8. 产品使用注意事项/Precautions for product use

8.1 切勿将电池投入水中或将其弄湿。Never put the battery in water or get it wet.

8.2 禁止将电池处于我们所规定温度范围以外充电及使用；请勿在火源，热源附近对本产品进行贮存、充电以及使用。

It is forbidden to charge and use the battery outside the temperature range specified by us; do not store, charge and use this product near fire and heat sources.

8.3 当电池组散发出异味或泄露，应立即停止使用或停止充电，并移至空旷通风处，远离火源，及时与我们取得联系。

When the battery pack emits peculiar smell or leaks, stop using or stop charging immediately, and move to an open and ventilated place away from fire sources, and contact us in time.

8.4 接负载使用中，请勿将正负极接反。

When connected to the load, please do not reverse the positive and negative poles.

8.5 请勿用金属导体将电池组正负极短路。

Do not short-circuit the positive and negative poles of the battery pack with metal conductors.

8.6 请勿将电池组投入火中或给其加热。

Do not throw the battery pack into a fire or heat it.

8.7 严禁将电池组进行人为解剖，严禁用钉子或尖锐物体刺穿电池组，严禁用锤子或其他外力敲击电池组，严禁人为踩踏和摔落电池组。

It is strictly forbidden to dissect the battery pack, pierce the battery pack with nails or sharp objects, strike the battery pack with a hammer or other external force, and do not step on and drop the battery pack.

8.8 严禁将电池组放入微波炉或压力容器中。

Never put battery packs in microwave ovens or pressure vessels.

8.9 充电或使用过程出现任何异常现象，请立即停止充电和使用。

If any abnormal phenomenon occurs during charging or use, please stop charging and using immediately.

8.10 产品的最佳使用温度为5-45℃，若产品在使用过程中未处于此温度范围内，放电容量将有所降低。

The best use temperature of the product is 5-45℃. If the product is not within this temperature range during use, the discharge capacity will be reduced.

8.11 如在使用过程中出现故障或异常，请与我们联系，请勿私自拆卸电池组。

If there is a malfunction or abnormality during use, please contact us, and do not disassemble the battery pack without permission.

8.12 产品在正常运行中带有高压，切勿用轻易用手触摸。

The product has high pressure in normal operation. Don't touch it easily with your hands.

<b>JEESENG</b>	<b>江门极晟能源有限公司</b>	文件编号 File No:	
		文件版本 File version:	A/0
	<b>Jiangmen Jeeseng Energy Co.,Ltd.</b>	页码 Page number:	12/13



**请勿靠近  
高压有电**

8.13 可插拔端子在设备正常运行中不可断开。

Pluggable terminals cannot be disconnected during the normal operation of the equipment



8.14 按当地法规处理废弃电池。

Disposable batteries according to local regulations



8.15 设备具有系统锁功能，达到自锁值锁死设备，需厂家人员使用特定密码通过上位机方可解除。达到以下任意一个值都会锁死设备。（M）为从板数量

单体过充保护	3.65V
Single overcharge protection	3.65V
单体过放保护	1.95V
Single over-relation protection	1.95V
总体过充保护	58.4V
Overall overcharge protection	58.4V
总体过放保护	31.2V
Overall over-relation protection	31.2V
充电过流保护	90A
Charging overcurrent protection	90A
放电过流放电	90A
Discharge and overcurrent protection	90A
充电高温保护	55℃
Charging high temperature	55℃
充电低温保护	2℃
Charging low temperature protection	2℃

<b>JEESENG</b>	<b>江门极晟能源有限公司</b>	文件编号 File No:	
		文件版本 File version:	A/0
	<b>Jiangmen Jeeseng Energy Co.,Ltd.</b>	页码 Page number:	13/13

放电高温保护 55℃

High-temperature discharge protection 55℃

放电低温保护 -19℃

Low-temperature protection -19℃

## 9. 保修与售后服务/Warranty and After-sales Service

9.1 保修期: 本产品享受10年有限保修服务(以购买凭证日期为准)。Warranty period: This product is entitled to a 10-year limited warranty service (subject to the date of purchase voucher).

9.2 保修范围: 包括电池性能故障及制造缺陷, 不包括人为损坏或自然灾害导致的损坏。Warranty scope: including battery performance failure and manufacturing defects, excluding damage caused by human factors or natural disasters.

9.3 售后服务: 如有任何问题, 请联系我们! After-sales service: If you have any questions, please contact us!

9.4 官方网站: <https://www.jeesengess.com/> Official website: [https://www.jeesengess.com](https://www.jeesengess.com/)