

产品介绍 Product Description

本产品包含1个电池集装箱、BMS系统、热管理系统、消防系统。其中电池是最基本的电池单元。BMS主要负责收集电池、电池PACK和电池柜信息,以及设备间各通讯、热管理网络,并管理集装箱使用中的能耗、温度、湿度、电信系统的消防状态检测以及火灾预防。

The product consists of 1 battery container, BMS, TMS (thermal management system), and firefighting system. The battery cell is the basic battery unit. The BMS collects the operating data of the cells, packs, and racks, and manages the communication devices. The TMS controls the cooling and heating of the entire battery rack system. And the firefighting system manages fire detection and extinguishing.

参数要求 Parameter Requirements

参数 Parameters	参数值 Values	项目 Parameter Items
存储环境温度 Storage Environment Temp	-20~60℃	存储环境温度 Storage Environment Temp
湿度 Humidity	5%~95%	湿度 Humidity
功率 Power	100W	功率 Power
重量 Weight	1000kg	重量 Weight

电池柜 Battery Container

消防系统 Firefighting System	1	灭火器 extinguisher
BMS	1	
变流器 Inverter	1	
Power Conversion	1	
EMS	1	

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参数 Parameters

参数值 Values

电芯 The Cell

- | | |
|----------------------|-------------------------|
| 1 电芯类型 Type | 磷酸铁锂 LFP |
| 2 电芯规格 Specification | 3.2V/20Ah |
| 3 额定倍率 Rated C-Rate | 0.5C |
| 4 最大倍率 Max C-Rate | 1.0C |
| 5 循环寿命 Cycle life | 6000 times @ 25°C, 0.5C |
| 6 日历寿命 Life span | ~20年 20 years |

电池模组 Battery Module

- | | |
|-----------------------------|------------|
| 7 组合方式 Serial Configuration | 1P52S |
| 8 额定容量 Rated Capacity | 200Ah |
| 9 额定电压 Rated Voltage | 166.4V |
| 10 电压范围 Voltage Range | 5.6~189.8V |
| 11 额定能量 Rated Energy | 33.2kWh |
| 12 额定倍率 Rated C-Rate | 0.5C |
| 13 最大倍率 Max C-Rate | 1.0C |

14 PACK内电芯温差 Cell Temp. Deviation in PACK <2°C

电池簇 Battery Cluster

15 额定电压 Rated Voltage

16 电压范围 Voltage Range

17 额定容量 Rated Capacity

18 额定能量 Rated Energy

19 额定倍率 Rated C-Rate

20 最大倍率 Max C-Rate

21 循环寿命 Cycle life

22 日历寿命 Life span

23 电芯类型 Type

24 电芯规格 Specification

25 额定倍率 Rated C-Rate

26 最大倍率 Max C-Rate

27 循环寿命 Cycle life

28 日历寿命 Life span

29 电芯类型 Type

30 电芯规格 Specification

31 额定倍率 Rated C-Rate

32 最大倍率 Max C-Rate

参数 Parameters		参数值 Values	
27 存储环境温度 Storage Environment temp.	10℃~50℃	240℃~60℃	
28 工作相对湿度 Relative Working Humidity	5~95%RH (无凝露)	5~95%RH (无凝露)	
29 海拔高度 Working Environment Altitude	≤3000m	≤3000m (when altitude > 3000m)	
30 冷却方式 Cooling	风冷	风冷	
31 消防等级 Fire Protection System	PACK级消防+水喷淋+防爆泄压	PACK-Level Fire Protection + Combustible Gas Detection + Explosion Relief Design	
32 辅助供电 Auxiliary Power Supply	400VAC/50Hz/3P		
33 系统通讯接口 Communication Interface	RS485		
34 标准认证 Standard Certification	GB36270		
35 防护等级 IP Class	IP55		
36 尺寸 (宽*深*高) Dimensions (W*D*H)	6058mm*2600mm		

柜体基本参数 Cabinet Basic Parameters		柜体基本参数 Cabinet Basic Parameters	
37 尺寸 (宽*深*高) Dimensions (W*D*H)	6058mm*2600mm	42 颜色 Color	RAL7035
38 重量 Weight	35 Tons	43 重量 Weight	35 Tons

认证 Certification		认证 Certification	
44 认证标准 Certification Standard	EN60277-1, EN60601-1, EN60601-2, EN60601-3, EN60601-4, EN60601-5, EN60601-6, EN60601-7, EN60601-8, EN60601-9, EN60601-10, EN60601-11, EN60601-12, EN60601-13, EN60601-14, EN60601-15, EN60601-16, EN60601-17, EN60601-18, EN60601-19, EN60601-20, EN60601-21, EN60601-22, EN60601-23, EN60601-24, EN60601-25, EN60601-26, EN60601-27, EN60601-28, EN60601-29, EN60601-30, EN60601-31, EN60601-32, EN60601-33, EN60601-34, EN60601-35, EN60601-36, EN60601-37, EN60601-38, EN60601-39, EN60601-40, EN60601-41, EN60601-42, EN60601-43, EN60601-44, EN60601-45, EN60601-46, EN60601-47, EN60601-48, EN60601-49, EN60601-50, EN60601-51, EN60601-52, EN60601-53, EN60601-54, EN60601-55, EN60601-56, EN60601-57, EN60601-58, EN60601-59, EN60601-60, EN60601-61, EN60601-62, EN60601-63, EN60601-64, EN60601-65, EN60601-66, EN60601-67, EN60601-68, EN60601-69, EN60601-70, EN60601-71, EN60601-72, EN60601-73, EN60601-74, EN60601-75, EN60601-76, EN60601-77, EN60601-78, EN60601-79, EN60601-80, EN60601-81, EN60601-82, EN60601-83, EN60601-84, EN60601-85, EN60601-86, EN60601-87, EN60601-88, EN60601-89, EN60601-90, EN60601-91, EN60601-92, EN60601-93, EN60601-94, EN60601-95, EN60601-96, EN60601-97, EN60601-98, EN60601-99, EN60601-100		

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AC Parameters		Values	
1 交流接入方式 AC Access	三相	2 额定功率 Rated Power (el.)	2.4kW
3 过载能力 Overload Capacity	1.1倍@长时运行, 1.2倍@1分钟运行 1.1x at constant operation, 1.2 at 1-min operation	4 额定电压 Rated Voltage	800V
5 额定电流 Rated Current	13.9A	6 额定电网频率 Rated Grid Frequency	50Hz, 与电网频率一致 50Hz, Consistent with grid frequency
7 总电流波形畸变率 THD) THDi	<3%	8 功率因数 Power Factor	1 (超前 Ahead) ~ 1 (滞后 Lag) 1 (Ahead) ~ 1 (Lag)
9 无功功率响应时间 Reactive Power Response Time	小于30ms (接收指令到完全响应) Less than 30ms from reception to full response	10 电压精度 Voltage Regulation Accuracy	±1%
11 保护 Protection			
12 欠电压穿越能力 Undervoltage-Through Function	有 Yes	13 防孤岛保护 Anti-island Protection	有 Yes
14 交流过压/欠压保护 AC Overvoltage/Undervoltage Protection	有 Yes	15 交流相序错误保护 AC Incoming Phase Sequence Error Protection	有 Yes

25	直流过流/短路保护	有 Yes
26	交流过压/欠压保护	有 Yes
27	交流过频/欠频保护	有 Yes
28	交流进线相序错误保护	有 Yes



应用领域 Application Markets

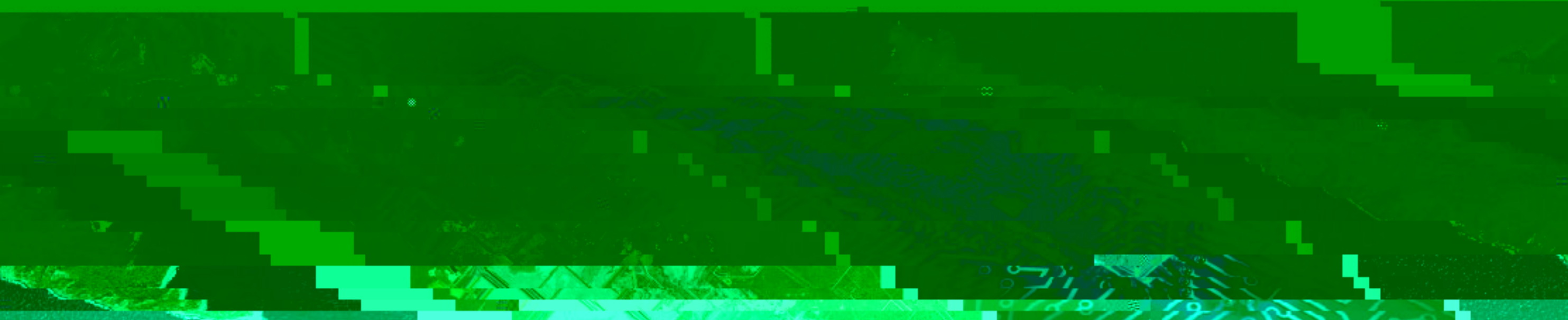


Solar PV Power Plant

风力发电厂 Wind Power Station

电网侧独立储能系统 Power Grid Side BESS

地面光伏发电场电站



光伏微电网 Micro-Grid by solar PV, BESS, and Diesel Generator

矿区 Mines

半导体工厂 Semiconductor Factory

Case

成功案例 Success Stories





Headquarter

89 Ruihe Rd., Huangpu District.,
Guangzhou, Guangdong Province

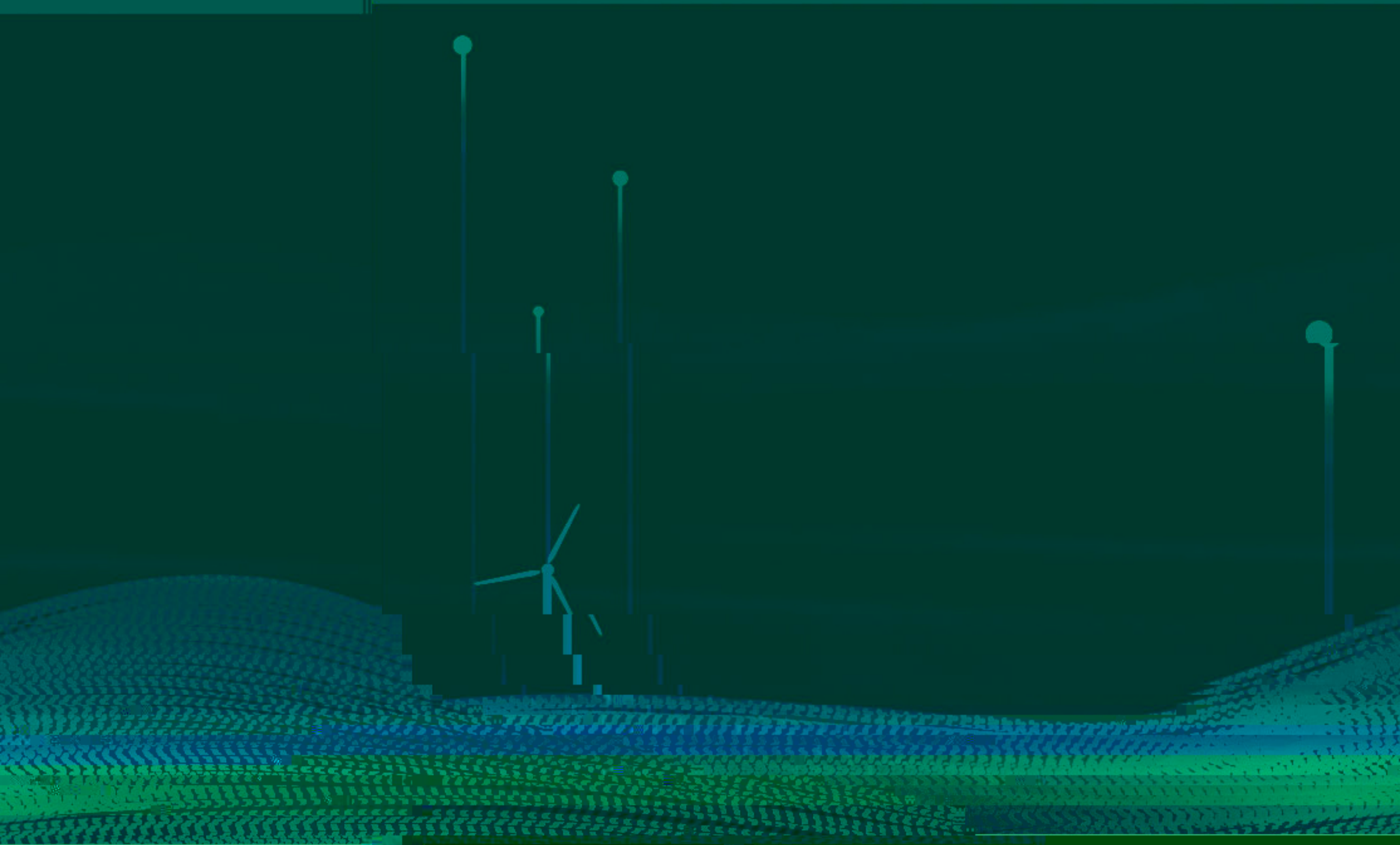


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