

100KW/215KWH

S2152 户外柜储能系统(100kW/215kWh)内部主要包括: 1组电池簇(磷酸铁锂电芯), 1套管理系统BMS、1套交流控制系统、1台智能工业空调、1套气体消防系统和1套热控制系统, 可广泛应用于分布式新能源场站储能电站、工商业储能电站

The outdoor cabinet energy storage system mainly includes: 1 set of battery cluster (lithium iron phosphate battery), 1 set of management system BMS, 1 set of AC control system, 1 intelligent industrial air conditioning. One set of gas fire protection system and one set of thermal control system can be widely used in distributed new energy station energy storage power stations, industrial and commercial energy storage power stations



- 线性扩展电池单元和储能双向逆变单元
Linear expansion battery unit and storage bidirectional inverter unit
- 先进的电池管理系统, 提供完善的测量和保护功能
Advanced battery management system provides perfect measurement and protection functions
- 主动均衡的电池管理系统, 提供完善的测量, 保护和均衡功能
Active balanced battery management system provides complete measurement, protection and balancing functions
- 故障分级处理机制, 对预设故障场景进行响应
Hierarchical fault handling mechanism to respond to preset fault scenarios
- 集成度高, 可快速安装和部署, 运行维护成本低
High integration, fast installation and deployment, low operation and maintenance costs
- 适用于响应电网负荷控制, 削减电网尖峰负荷等
It is suitable for responding to the load control of power grid and reducing the peak load of power grid

■ 使用条件 Working condition

- 环境温度: -20~ +60 C , 相对湿度0-95% (无冷凝)
Ambient temperature: -20~ +60 C , relative temperature 0-95% (no condensation)
- 防腐要求: C3防腐
Anti-corrosion requirements: C3 anti-corrosion
- 海拔: 2000m
Altitude: 2000m
- 使用地点不允许有爆炸危险的介质
The use place does not allow the explosive danger of media
- 使用地点不允许有可被设备粘附或吸入的强酸强碱等高污染物质
The use site is not allowed to have strong acid and alkali and other highly polluting substances that can be adhered to or inhaled by the equipment
- 设备需水平安装在满足承重要求的硬化地基上, 地基应留有缆槽, 方便走线
The device must be installed horizontally on a hardened foundation that meets the load-bearing requirements. The foundation must be provided with cable slots for easy cabling
- 设备不允许安装在低洼地势的场地, 避免水浸
Do not install the device in low-lying terrain to avoid water flooding
- 设备需置于通风良好的区域, 进出风口300mm 内不允许有障碍物, 以免阻碍通风
The device must be placed in a well-ventilated area. No obstacles are allowed within 300mm of the air inlet and outlet to prevent ventilation
- 设备周边应按当地要求进行区域防护, 防止非工作人员的接近
Area protection should be carried out around the equipment according to local requirements to prevent non-staff from approaching
- 设备周边应依照当地要求, 按建筑或电站设备的防雷要求, 布置防雷措施
Arrange lightning protection measures around the equipment according to the local requirements and the lightning protection requirements of the building or power station equipment

DC 电池参数 DC Battery Parameters

电池类型 Battery Type	LiFePO4
电池系统额定电压 (V) Battery Rated Voltage(V)	768
电池系统额定容量 (Ah) Battery Rated Capacity(Ah)	280
充放电倍率 Charge and discharge Ratio	0.5C
放电深度 Discharge Depth	90%DOD
循环次数 Life Cycle	≥6000次 (time) 70%

AC 参数 AC Parameter

额定功率 Nominal Power Output	100KW
最大功率 Maximum Power Output	110KW
交流电压范围 AC Voltage Range	230/400V +/-10%
电网频率 Grid Frequency	50/60Hz
功率因数调节范围 Power factor	1 (超前) ~-1(滞后) 1 (Leading) ~-1(Lagging)

系统参数 System Parameters

消防系统 Fire Extinguishing System	多级消防保护 Multistage fire protection
通信接口 Communication	LAN/CAN/RS485
储能系统总电量 (KWh) Nominal Energy Container	215KWh
电池系统总质量 Nominal Weight Container	2.45T
电池系统电压范围 (V) Operating Voltage Container	648-864V
推荐SOC工作范围 SOC at delivery	5-95%
储能系统冷却方式 Cooling Method	风冷 Air Cooling
储能系统防护等级 Protection Level	IP55
储能系统外形尺寸 (mm) Dimension(L*W*H)	1100*1525*2350mm
工作温度范围 Operating Temperature	充电:0-50°C 放电:-20-60°C Charge:0-50 °C Discharge:-20-60 °C

■ 并离网光伏储能系统拓扑
Off-grid-connected photovoltaic energy storage system topology

