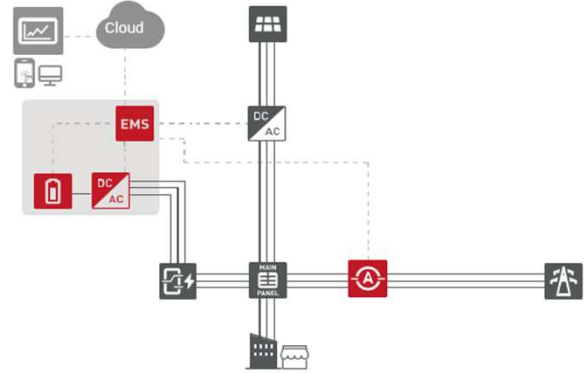




RC Terra Class 2.0 261-125-03D C&I Energy Storage System 工商业储能系统



High Efficient Power Supply 高效供电

- 261 kWh Outdoor Commercial & Industrial Energy Storage System (CESS)
261 kWh 户外工商业储能系统
- Equipped with a modular and high-efficiency energy storage converter
搭载模块化且高效的储能变流器
- Smart Energy Cloud Platform
智慧能源云平台
- Supports parallel operation of multiple units and allows flexible energy configuration as required
支持多机并机运行，可根据需要灵活配置能量

Safety Technology 安全技术

- Adopts five-level protection: cell-level protection, pack-level shutdown protection, cluster-level shutdown protection, PCS anti-islanding protection, and cabinet-level electrical shutdown protection
采用五重保护: 电芯级保护, Pack级切断保护, 簇级切断保护, PCS防孤岛保护, 舱级电气切断保护
- 314Ah lithium iron phosphate battery delivers high levels of safety, thermal stability and reliability.
314Ah 磷酸铁锂电池提供高水平的安全, 热稳定性以及可靠性
- A variety of fire detection functions are integrated inside the cabinet, and an aerosol fire suppression system is equipped.
柜内集成多种消防检测功能, 且配备气溶胶灭火系统
- Integrates a BMS (Battery Management System) capable of optimizing battery energy storage
集成BMS电池管理系统, 能够优化电池能量存储

Application Scenarios 应用场景

- Self-consumption 自发自用
- T.O.U 分时电价
- Peak Shaving 削峰
- Third-party Power Dispatching 第三方电力调度

General 通用参数

Nominal Energy 标称能量	261 kWh
Usable Energy 可用能量 (95% DOD)	247.95 kWh
Maximum Charge/Discharge Rate 最大充放电速率	0.5 P
Relative Operating Humidity 相对运行湿度	0% ~ 95% RH, Non-condensing 无凝露
Operating Temperature Range 运行温度范围	-30°C ~ 50°C (>45°C derating 降额)
Storage Temperature Range 存储温度范围	-35°C ~ 55°C (Recommended 推荐 0°C to 30°C)
Operating Altitude 运行海拔	≤3000 m (>2000 m derating 降额)
Dimension 尺寸 (mm)*	W1130×H2328×D1385
Corrosion-proof Grade of Cabinet 柜体防腐等级	C3 (C4, C5 optional 可选)
Weight 重量	Approximately 约 2700 kg
IP Rating 防护等级	IP54
Noise Level 噪音等级	≤70 dB
Communication Protocol 通讯协议	Modbus TCP
Off-grid Operation 离网运行	Support 支持
BMS 电池管理系统	Integrated 集成
EMS 能量管理系统	Integrated 集成

DC Side 直流侧参数

Battery Pack Quantity 电池包数量	5
Battery Pack Structure 电池包结构	1P52S
Battery Energy per Pack 每个电池包的能量	52.25 kWh
Battery Type 电池类型	LiFePO ₄ 磷酸铁锂
DC-side Rated Voltage 直流侧额定电压	832 Vdc
DC-side Operating Voltage Range 直流侧运行电压范围	689-930.8 Vdc
Cooling Method Of Pack 电池包冷却方式	Liquid-cooling 液冷
Cycle Lifetime Of Battery Cell 电芯循环寿命	≥8000 cls (70%SOH, 25±2°C)

AC Side 交流侧参数

Rated AC Power 额定交流功率	125 kW
Rated AC Current 额定交流电流	180 A
Rated AC Voltage 额定交流电压	400 Vac (3P+N+PE)
AC Line Frequency 交流频率	50 Hz
Long-term Overload Capacity 长期过载能力	110%
Power Factor Adjustable Range 功率因数可调范围	-1 ~ +1

Safety Features 安全特点

Flammable/explosive Gas Detection 易燃易爆气体探测, Flammable/explosive Gas Exhaust Valve 易燃易爆气体排气阀, Smoke Detector 烟雾探测, Temperature Detector 温度探测, Aerosol Fire Suppression 气溶胶灭火系统, Siren and Strobe Alarm 声光报警器, Emergency Stop Button 急停按钮

***NOTE 注意:**

1. The installation foundation dimensions of the cabinet are **1130 mm × 1385 mm**. If the front door lock and the back panel exhaust valve are taken into account, the maximum overall external dimensions of the cabinet are **W1130 mm × H2328 mm × D1421 mm**. 柜体的安装基础尺寸为**1130mm×1385mm**. 如果考虑到前门门锁与背门板排气阀, 则整柜的最大外尺寸为**W1130mm ×H2328mm ×D1421mm**.