



SS

C&I All-in-One BESS

液冷工商业一体机

186kW/372kWh

产品介绍 Product Description

电柜内部包含 8 个电池箱和 1 个主控箱、BMS 系统、热管理系统、消防系统。其中，电芯是最基本的 电池单元。BMS 主要负责收集电芯、电池PACK和电柜信息，以及和其他设备通讯。热管理系统负责整个电柜系统的制冷、加热。消防系统负责整个电柜系统的消防状态检测以及火灾预防。

The product consists of 8 battery packs, the control compartment, BMS, TMS (thermal management system) and firefighting system. The BMS collects the operating data of the cells, packs and racks, and communication devices. The TMS controls the cooling and heating of the battery pack.

使用环境 Operation Environment Requirements

| 项目 Parameters | 参数值 Values |
|--|---|
| 1 存储环境温度 Storage Environment Temp. | -30~60°C |
| 2 工作环境温度 Operation Environment Temp. | -25~55°C |
| 3 工作环境湿度 Operation Environment Humidity | 相对湿度 5%~95% w/o condensation |
| 4 工作海拔要求 Operation Altitude | ≤3000m, >3000m 降额使用 ≤3000m, output derated when altitude > 3000m |

电池架 Battery Rack

| 组成部件 Component | 数量 Qty. | 备注 Note |
|---|---------|---|
| 1 电池箱 Battery Compartment | 1 | 1P52S |
| 2 控制舱室 Control compartment | 8 | 舱室主要包含微测装置、保护器件等 The compartment is composed of detection device and protective device |
| 3 热管理系统 (水冷机组+水管) Thermal Management System (Chiller + Water Pipe) | 1 | 支持制冷/加热/自循环 Multi-TMS modes: cooling, heating, self-circulation |
| 4 消防系统 Firefighting System | 1 | 包含烟雾传感器、温度传感器、气溶胶灭火器 Contains smoke sensors, temperature sensors and fire extinguisher |
| 5 BMS | 1 | |
| 6 PCS (选配), PCS (optional) | 1 | |

产品技术参数 Technical Data Sheet

| 项目 Parameters | 参数值 Values |
|---|----------------------------|
| 由油柜柜体基本参数 Cabinet basic parameters | |
| 1 配置 Serial Configuration | 1P416S |
| 2 额定电压 Rated Voltage | 10kV |
| 3 短路电流 Short-circuit current | 12.2kA |
| 4 额定电流 Rated Current | 160A 持续1分钟 160A@1 minute |
| 电性能参数 Electrical Performance | |
| 5 额定充电电流 Rated Charging Current | 140A |
| 6 额定充电功率 Rated Charging Power | 1.4MW 持续1分钟 1.4MW@1 minute |
| 辅助电源 Auxiliary Power supply | |
| 13 辅助电源电压范围 Voltage Range | 170-240V AC/50Hz |
| 柜体基本参数 Cabinet | |
| 14 柜体高度 Cabinet Height | 2300mm |
| 15 柜体宽度 Cabinet Width | 600mm |
| 16 柜体深度 Cabinet Depth | 1200mm |
| 17 柜体重量 Cabinet Weight | 1200kg |
| 认证 Certification | |

变流系统参数 [PCS Data Sheet]

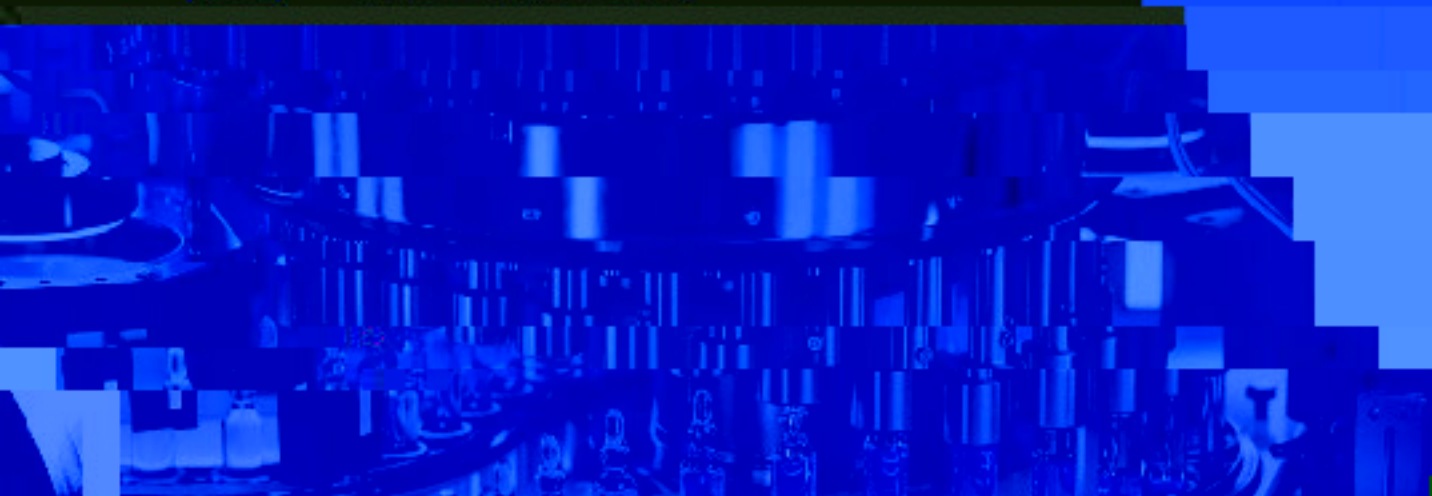
| 项目 Parameters | 参数值 Values |
|--|--|
| 基本参数 Battery Pack | |
| 1 型号 Type | ZGE-CI-Z-186-372 |
| 2 额定功率 Rated power | 215kVA |
| 3 过载能力 Overload Capacity | 1.1倍@长期, 1.2倍@1分钟 1.1x at Constant operation, 1.2x at 1 min operation |
| 4 效率 Efficiency | 99%MAX |
| 5 功率响应时间 Power Response Time | < 20ms |
| 6 充放电切换时间 Charge/Discharge Switching Time | < 500ms |
| 7 工作环境温度 Operation Environment Temp. | -40°C ~ +60°C |
| 8 安装方式 Installation | 壁挂 Wall-mounted |
| 9 工作环境海拔 Operation Environment altitude | 低于4000m Lower than 4000m |
| 10 防护等级 Protection Class | IP66 |
| 11 冷却方式 Cooling | 强制风冷 Forced air-cooled |
| 12 尺寸(长*宽*高) Dimension (W*D*H) | 750mm*750mm*270mm |
| 13 重量 Weight | 95kg |
| 14 隔离方式 Isolation Method | 非隔离 Non-isolated |
| 直流侧 DC Parameters | |
| 15 直流最大电压 Max Voltage | 1500V |
| 16 工作电压范围 Operating Voltage Range | 1100 ~ 1500V |
| 17 直流满载工作电压范围 100% Operating voltage range | 1100 ~ 1500V |
| 交流侧 AC Parameters | |
| 18 额定电压 Rated Voltage | 750V |
| 19 额定电流 Rated current | 154A |
| 20 最大长期工作电流 Max Constant Operating Current | 169A |
| 21 电压范围 Voltage ranges | -15% ~ +10% |
| 22 频率 Frequency | 50/60Hz ± 5Hz |
| 23 总电流谐波 THDi | < 3% |
| 24 接线方式 Wiring Group | 3P/PE |
| 通讯方式 Communication Method | |
| 25 通信接口 Interface | RS485 |
| 26 通信协议 Protocol | Modbus-RTU/Modbus-TCP |

应用领域 Application Markets



化工厂 Chemical Plant

油气加工厂 Oil & Gas Refinery



钢铁厂 Iron & steel factory

制药厂 Pharmaceutical Factory

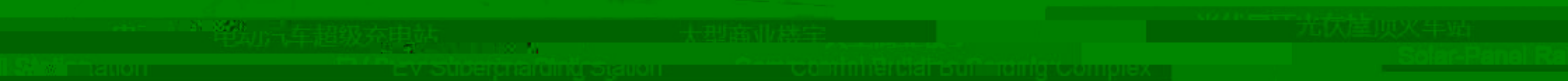
数据中心 Data center



供应链物流园 Supply Chain Logistics Park

半导体工厂 Semiconductor Factory

制冷中心及冷库 Cold center and cold storage



充电站 Charging station

电动汽车超充电站 EV Supercharging station

商业综合体 Commercial building complex

数据中心及冷库 Data center and cold storage

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