



Energy expert for total ESS users



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 entire battery rack system. And the firefighting system manages the fire alerting and extinguishing for the entire battery system.



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	DRK0505 无冷凝 w/o condensation
4 工作海拔要求 Operation Altitude	≤3000m, >3000m 降额使用 ≤3000m, output derated when altitude >3000m



电池柜

Battery Rack

组成部件 Component	数量 Qty.	备注 Note
1 电池箱 Battery Compartment	1	1P52S
2 控制柜 Control Compartment	8	主要包括检测装置、保护装置 Composed of detective device and protective device
3 热管理系统 (水冷机型+水管道) Thermal Management System (Chiller + Water Pipe)	1	制冷、加热、自循环 Multi-TMS modes: cooling, heating, self-circulation
4 消防系统 Firefighting System	1	烟雾传感器、温度传感器 Smoke sensors, temperature sensors
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
电池柜基本参数 Battery Rack	
1 配置 Serial Configuration	1P416S
2 电箱数量 Pack Qty.	8 sets
3 短路电流 Short-circuit current	12.2kA
4 接线模式 Junction Terminal...	快插 Fast Plug
电性能参数 Electrical Performance	
5 额定充电电流 Rated Charging Current	140A
6 最大充电电流 Max. charging current	160A 持续1分钟 160A@1minute
7 充电电压 Charging Voltage	270VDC
8 放电电压 Discharge Voltage	130VDC
9 充电功率 Charging Power	37.8kW
10 放电功率 Discharge Power	37.8kW
11 充电效率 Charging Efficiency	95%
12 放电效率 Discharge Efficiency	95%
辅助电源 Auxiliary Power supply	
13 辅助电源电压范围 Voltage Range	176-264V AC(L-N)
14 BMS功率 BMS Power	1kW
柜体基本参数 Cabinet	
15 尺寸 (宽*深*高) Dimension (W*D*H)	1720mm*1350mm*2500mm
16 颜色 Colour	RAL7035
17 重量 Weight	3895kg
18 防腐等级 Anti-corrosion Class	C5
19 电池室IP等级 Battery Compartment IP Class	IP66
20 控制室 Control Compartment IP Class	IP55
21 接地电阻 Ground Resistance	≤4Ω
22 认证方式 Certifying	76项认证 10项认证
认证 Certification	

逆变系统参数 ZGE Substation

项目 Parameters		参数值 Values
基本参数 Basic Parameters		
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 1min 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	< 50ms	
7 工作环境温度 Operation Environment Temp.	-40℃ ~ +60℃	
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（宽*深*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	1140 ~ 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 ±5%	
23 总电流谐波 THDi	< 3%	
24 接线方式 Wiring Group	3PE	
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



Chemical Plant

油气加工厂 Oil & Gas Refinery

化工厂



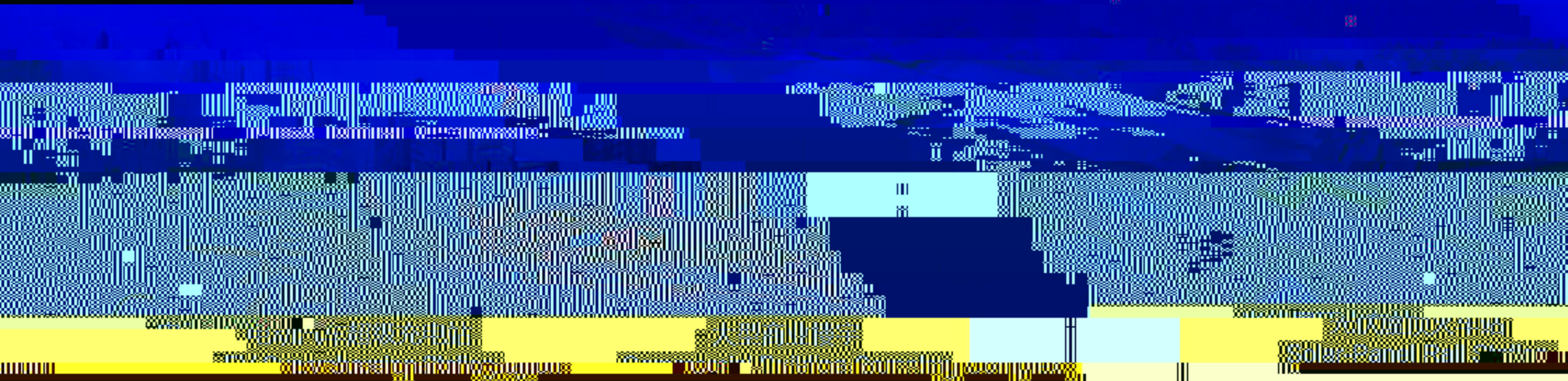
制药厂 Pharmaceutical Factory

钢铁厂 Iron & Steel Factory

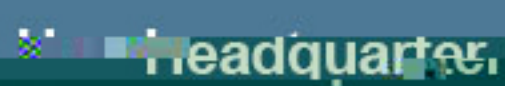


半导体工厂 Semiconductor Factory

制冷中心及冷库 Cold-Chamber



Logistics Park



Yanling Rd., Huangpu District,
Guangzhou, Guangdong Province



Beijing Branch

10208-tengea' bLD; 'xiznimenwai
Str., Haidian District, Beijing

IB-marketing@gzzg.com
www.gzzg.com.cn

7862083909333
+ 86 10 88361905