



# 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 电池是基本的电池单元。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 system. The firefighting system is responsible for the fire status detection 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 工作相对湿度 Operation Humidity	5%~95%无冷凝 w/o condensation
4 工作海拔要求 Operation Altitude	≤3000m / ≤3000m 海拔使用 ≤3000m; output derated when altitude >3000m

## 电池柜 Battery Rack

名称 Name	数量 Qty	主要配置 Main Configuration	备注 Note
1 电池柜 Battery Rack	8	1 个电芯仓 1 PCS	
2 控制柜 Control Compartment	1	1 个控制柜 1 PCS	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 (水冷机组+水管) Thermal Management System (Chiller + Water Pipe)	1	水冷机组、水管 Chiller, Water Pipe	制冷/制热/自循环 Multi-TMS modes and standby
4 消防系统 Firefighting System	1	烟雾传感器、气溶胶灭火器 Smoke sensors, aerosol 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
<b>电池柜基本参数 Battery Pack</b>	
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 Mode	柜内配线接线
<b>电性能参数 Electrical Performance</b>	
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
<b>辅助电源 Auxiliary power supply</b>	
13 辅助电源电压范围 Voltage Range	T76-264V AC(L-N)
14 BMS功率 BMS Power	1kW
<b>柜体基本参数 Cabinet</b>	
15 尺寸(宽*深*高) Dimension (W*D*H)	1720mm*1350mm*2500mm
16 颜色 Colour	RAL7035
17 重量 Weight	3895kg
18 耐腐蚀等级 Corrosion class	C3
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 额定负载 Rating	362kW

## 认证 Certification

IEC60364, UL1073, UL9540A

GB 18269.1, GB 18269.2, GB 18269.3, GB 18269.4, GB 18269.5, GB 18269.6, GB 18269.7, GB 18269.8, GB 18269.9, GB 18269.10, GB 18269.11, GB 18269.12, GB 18269.13, GB 18269.14, GB 18269.15, GB 18269.16, GB 18269.17, GB 18269.18, GB 18269.19, GB 18269.20, GB 18269.21, GB 18269.22, GB 18269.23, GB 18269.24, GB 18269.25, GB 18269.26, GB 18269.27, GB 18269.28, GB 18269.29, GB 18269.30, GB 18269.31, GB 18269.32, GB 18269.33, GB 18269.34, GB 18269.35, GB 18269.36, GB 18269.37, GB 18269.38, GB 18269.39, GB 18269.40, GB 18269.41, GB 18269.42, GB 18269.43, GB 18269.44, GB 18269.45, GB 18269.46, GB 18269.47, GB 18269.48, GB 18269.49, GB 18269.50, GB 18269.51, GB 18269.52, GB 18269.53, GB 18269.54, GB 18269.55, GB 18269.56, GB 18269.57, GB 18269.58, GB 18269.59, GB 18269.60, GB 18269.61, GB 18269.62, GB 18269.63, GB 18269.64, GB 18269.65, GB 18269.66, GB 18269.67, GB 18269.68, GB 18269.69, GB 18269.70, GB 18269.71, GB 18269.72, GB 18269.73, GB 18269.74, GB 18269.75, GB 18269.76, GB 18269.77, GB 18269.78, GB 18269.79, GB 18269.80, GB 18269.81, GB 18269.82, GB 18269.83, GB 18269.84, GB 18269.85, GB 18269.86, GB 18269.87, GB 18269.88, GB 18269.89, GB 18269.90, GB 18269.91, GB 18269.92, GB 18269.93, GB 18269.94, GB 18269.95, GB 18269.96, GB 18269.97, GB 18269.98, GB 18269.99, GB 18269.100

# 逆变系统参数 ZPS-D Inverter

项目 Parameters	参数值 Values
<b>基本参数 Battery Pack</b>	
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 功率因数 PF	0.99
6 效率 PF	0.99
7 工作环境温度 Operation Environment Temp.	-40°C ~ +60°C
8 工作环境海拔 Operation Environment altitude	低于4000m Lower than 4000m
<b>直流侧 DC Parameters</b>	
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, 100%	1100 ~ 1500V
<b>交流侧 AC Parameters</b>	
18 额定电压 Rated voltage	750V
19 额定电流 Rated current	154A
20 最大长期运行电流 Max constant operating current	154A
21 电压范围 Voltage ranges	-15% ~ +15%
22 频率 Frequency	50/60Hz
23 总电流谐波 THDi	< 3%
24 接线方式 Wiring Group	03/PE
<b>通讯方式 Communication Method</b>	
25 通信接口 Interface	RS485

# 应用领域 Application Markets



化工厂 Chemical Plant



油气加工厂 Oil & Gas Refinery



制药厂 Pharmaceutical Factory



轮胎及橡胶厂 Tire & Rubber Factory



半导体工厂 Semiconductor Factory

冷链物流制冷中心及冷库 Cold-Chain Logistics Park



充电站

Charging Station

大型商业楼宇  
Commercial Building Complex

光伏屋顶火车站  
Solar-Panel Rail Station

电动汽车超级充电站  
EV Supercharging Station

