

Power Ocean- 电力储能用锂离子电池舱

Power Ocean- Lithium ions Battery Container for Electric ESS



● ESD768-1P2760 ● ESD1088-1P3130

集装箱储能系统有助于能源的使用和管理，减少电费支出，应用于发电侧、电网侧、大型工业用户等对能量调节需求较大且集中分布场景。

The design of ESS system is to reduce the cost and maintain the grid stability. The significant benefits as follows :

- 1)enhance power system reliability;
- 2)reduce the power cost and minimize the potential for power loss;3)peak load shifting.



高安全性 High Security

三级保护控制策略

Three levels of protection control strategy

完善的 BMS 实时检测

Complete real-time detection of BMS

多级预警，消防联动

Multi-level warning and firefighting linkage

可选防爆部件，进一步提高安全性

Optional explosion-proof missing, further improving safety



标准化 Standardization

标准化、模块化设计、占地面积小

Standardized, modular design, small footprint

OPS 系统，提高运维效率

OPS system to improve operation and maintenance efficiency



高输出 High Output

先进的材料体系，高效率电芯

Advanced material system, high-efficiency battery cells

优化配组，高一一致性

Optimize composition and achieve high consistency

可选主动均衡，进一步提高电量和寿命

Optional active balancing, further improve battery capacity and lifespan



精细化管理 Refined Management

电芯到系统的多级热设计与优化

Multi-stage thermal design and optimization from cell to system

精细化热管理运行策略

Refined thermal management operation strategy

型号 /Model		ESD768-1P2760	ESD1088-1P3130
电气参数 /ELECTRICAL			
电芯容量	Cell Capacity	90Ah	90Ah
标称能量	Nominal Capacity	2760kWh	3130kWh
推荐使用电压范围	Recommended Voltage	672~864V	952~1224V
标称电压	Rated Voltage	768V	1088V
最大充电倍率	Max Charge Rate	1P@25°C	1P@25°C
最大放电倍率	Max Discharge Rate	1P	1P
最大充电功率	Max Charge Power	2760kW (1P)	3130kW (1P)
环境参数 /ENVIRONMENTAL			
工作温度范围	Operating Temperature Range	-20~45°C	-20~45°C
工作湿度范围	Operating Humidity Range	≤ 95%	≤ 95%
防护等级	Enclosure Protection Rating	IP54	IP54
冷却方式	Cooling	强制风冷 Forced air-cooled	强制风冷 Forced air-cooled
消防系统	Fire Fighting System	七氟丙烷 / 全氟己酮 HFC-227ea/Novtec1230	七氟丙烷 / 全氟己酮 HFC-227ea/Novtec1230
海拔	Altitude	≤ 2000m	≤ 2000m
通讯方式 /COMMUNICATIONS			
通讯方式	Communication	CAN, RS485, Ethernet	CAN, RS485, Ethernet
符合标准	Certification	GB/T36276	IEC62619、IEC61000、 UL1973、UL9540A、UN38.3、 GB/T36276
结构参数 /STRUCTURAL			
尺寸	Dimensions (W*D*H)	12192mm×2438mm×2896mm	12192mm×2438mm×2896mm
重量	Weight	43t	49t