

The system adopts environmentally friendly lithium iron phosphate batteries and equipped with a customized BMS system for effective management of the battery cells, providing superior product performance and safety and reliability compared to traditional batteries.

LITHIUM BATTERY ENERGY STORAGE SYSTEMS



One-touch switching



Highly compatible



Flexible capacity



Modular design

PRODUCT ADVANTAGE

- ★ Modular design, higher integration, saving installation space;
- ★ High-performance lithium iron phosphate cathode material, with good consistency of the core and a design life of more than 10 years;
- ★ One-touch switching, front operation, front wiring, ease of installation, maintenance and operation.
- ★ Various functions, over-temperature alarm protection, over-charge and over-discharge protection, short-circuit protection;
- ★ Highly compatible, seamlessly interfacing with mains equipment such as UPS and photovoltaic power generation;
- ★ Various forms of communication interfaces, CAN/RS485 etc. can be customized according to customer requirements, easy for remote monitoring;
- ★ Flexible using range, can be used as a stand-alone DC power supply, or as a basic unit to form a variety of specifications of energy storage power supply systems and container energy storage systems. Can be used as a backup power supply for communication base stations, backup power supply for digital centers, home energy storage power supply, industrial energy storage power supply, etc.

PARAMETER FOR BATTERY PACK

Model	SW9650	SW48100	SW32150	SW96100	SW48200	SW32300
Cell version	52AH			105AH		
Rated power(KWH)	4.8	4.8	4.8	9.6	9.6	9.6
Nominal capacity(AH)	50	100	150	100	200	300
Nominal voltage(VDC)	96	48	32	96	48	32
Operating voltage range(VDC)	87-106.5	43.5-53.2	29-35.5	87-106.5	43.5-53.2	29-35.5
Operating temperature	-20~65°C					
IP grade	IP20					
Reference weight(Kg)	50			90		
Referencesize(D*W*H)	475*630*162			510*640*252		

Note: Battery pack is used in a system, cycle life \geq 5000, under working condition of 25°C,80%DOD.Specific voltage can be customized.

PARAMETER FOR BATTERY STACK/CLUSTERS SYSTEM

Model	SW9650	SW48100	SW32150	SW96100	SW48200	SW32300
Cell version	Lithium iron phosphate					
Rated power(KWH)	19.2	38.4	57.6	28.8	57.6	86.4
Nominal capacity(AH)	100	200	300	100	200	300
Nominal voltage(VDC)	192			288		
Operating voltage range(VDC)	174~213			260~319.5		
Recommend charging voltage (VDC)	207			310		
Recommended discharge cut-off voltage(VDC)	180			270		
Standard charge current(A)	50	100	150	50	100	150
Maximum continuous charge current(A)	100	200	300	100	200	300
Standard discharge current(A)	50	100	150	50	100	150
Maximum continuous discharge current(A)	100	200	300	100	200	300
Operating temperature	-20~65°C					
IP grade	IP20					
Communication interface	RS485/CAN two choose one					
Reference weight(Kg)	240	440	640	340	640	930
Referencesize(D*W*H)	530*680*950	530*680*1510	530*680*2080	530*680*1230	530*680*2080	1060*680*1510

PARAMETER FOR BATTERY STACK/CLUSTERS SYSTEM

Model	SW384100	SW384200	SW384300	SW480100	SW480200	SW480300
Cell version	Lithium iron phosphate					
Rated power(KWH)	38.4	76.8	115	48	96	144
Nominal capacity(AH)	100	200	300	100	200	300
Nominal voltage(VDC)	384			480		
Operating voltage range(VDC)	348~426			435~532		
Recommend charging voltage (VDC)	414			517		
Recommended discharge cut-off voltage(VDC)	360			450		
Standard charge current(A)	50	100	150	50	100	150
Maximum continuous charge current(A)	100	200	300	100	200	300
Standard discharge current(A)	50	100	150	50	100	150
Maximum continuous discharge current(A)	100	200	300	100	200	300
Operating temperature	-20~65°C					
IP grade	IP20					
Communication interface	RS485/CAN two choose one					
Reference weight(Kg)	440	840	1200	540	1040	1540
Referencesize(D*W*H)	530*680*1510	1060*680*1510	1590*680*1510	530*680*1800	1060*680*1800	1590*680*1800

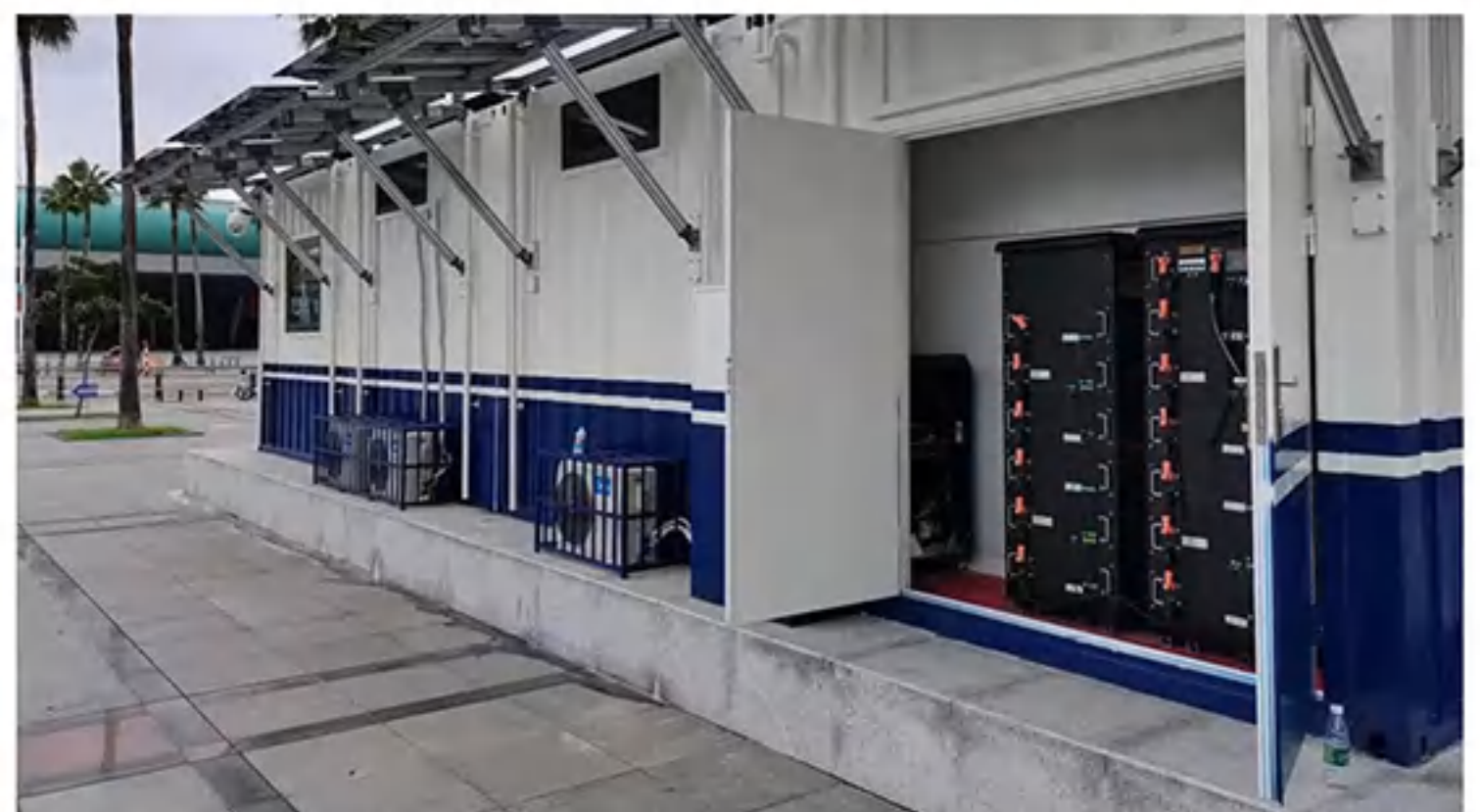
PARAMETER FOR BATTERY STACK/CLUSTERS SYSTEM

Model	SW576100	SW576200	SW576300	SW672100	SW672200	SW672300	SW720200
Cell version	Lithium iron phosphate						
Rated power(KWH)	57.6	115.2	172.8	67.2	134.4	201.6	144
Nominal capacity(AH)	100	200	300	100	200	300	200
Nominal voltage(VDC)	384			480			
Operating voltage range(VDC)	348~426			435~532			
Recommend charging voltage(VDC)	414			517			
Recommended discharge cut-off voltage(VDC)	360			450			
Standard charge current(A)	50	100	150	50	100	150	100
Maximum continuous charge current(A)	100	200	300	100	200	300	200
Standard discharge current(A)	50	100	150	50	100	150	100
Maximum continuous discharge current(A)	100	200	300	100	200	300	200
Operating temperature	-20~65°C						
IP grade	IP20						
Communication interface	RS485/CAN two choose one						
Reference weight(Kg)	640	1240	1840	730	1420	2130	1540
Referencesize(D*W*H)	530*680*2080	1060*680*2080	1590*680*2080	1060*680*1230	1590*680*1510	2120*680*1800	1590*680*1800

PRODUCT DISPLAY



PRODUCT CASES



ENERGY STORAGE SYSTEM CONTAINER

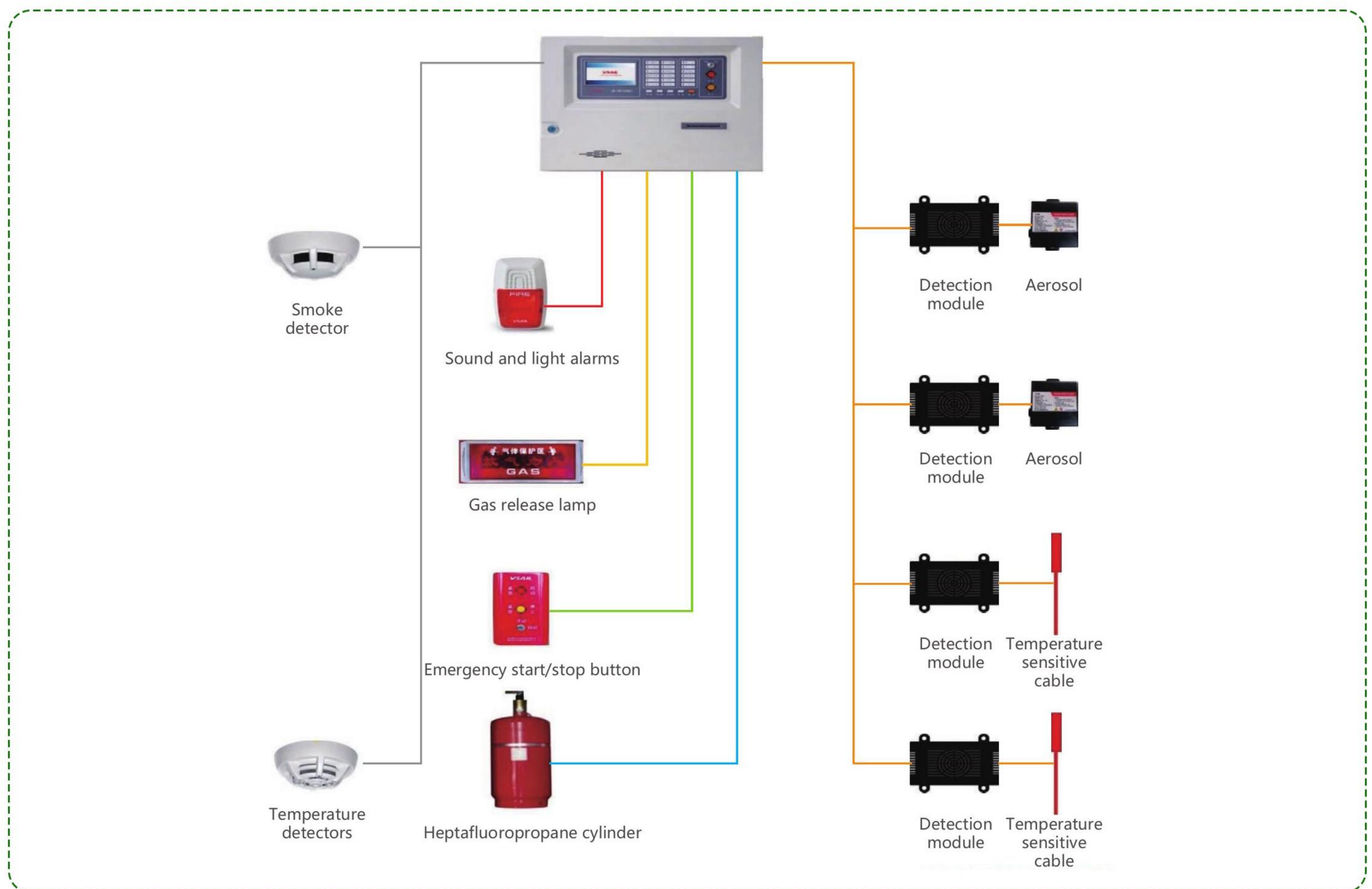
High voltage lithium battery storage system

Product Introduction

The container energy storage system includes: energy storage battery system, PCS booster system, fire fighting system, monitoring system, etc. It is widely used in scenarios such as power security, back-up power, peak shaving and valley filling.



FIRE FIGHTING TOPOLOGY

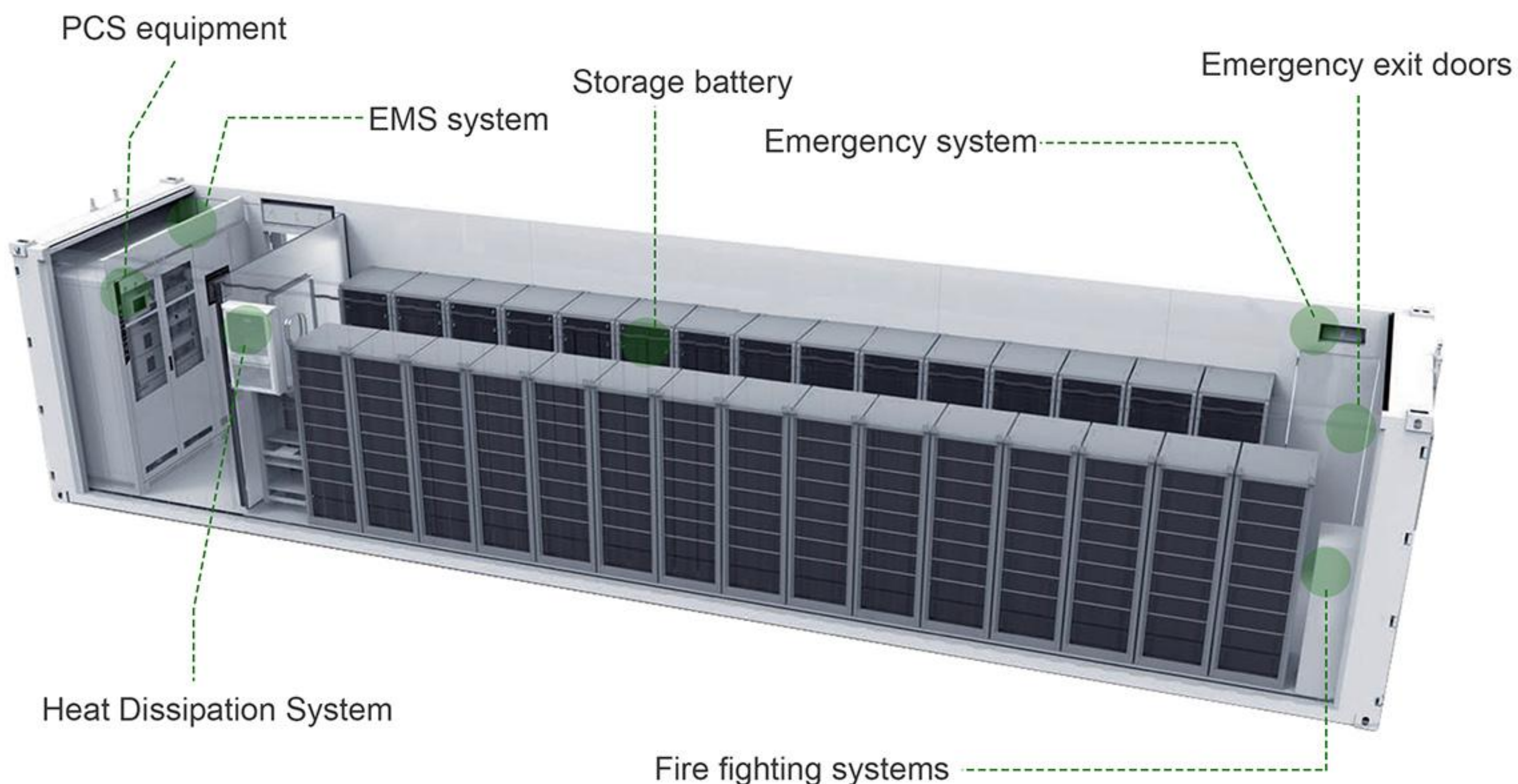


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|---|---|
|  Circuit 2 bus RVV1.0mm ² x2 |  Emergency start/stop signal cable RVV1.5mm ² x4 |
|  Powerbus Circuit 2 bus RVV1.0mm ² x2 |  Gas release lamp signal cable RVV1.5mm ² x2 |
|  Cylinder signal cable RVV1.5mm ² x4 |  Sound and light alarms signal cable VV1.5mm ² x4 |

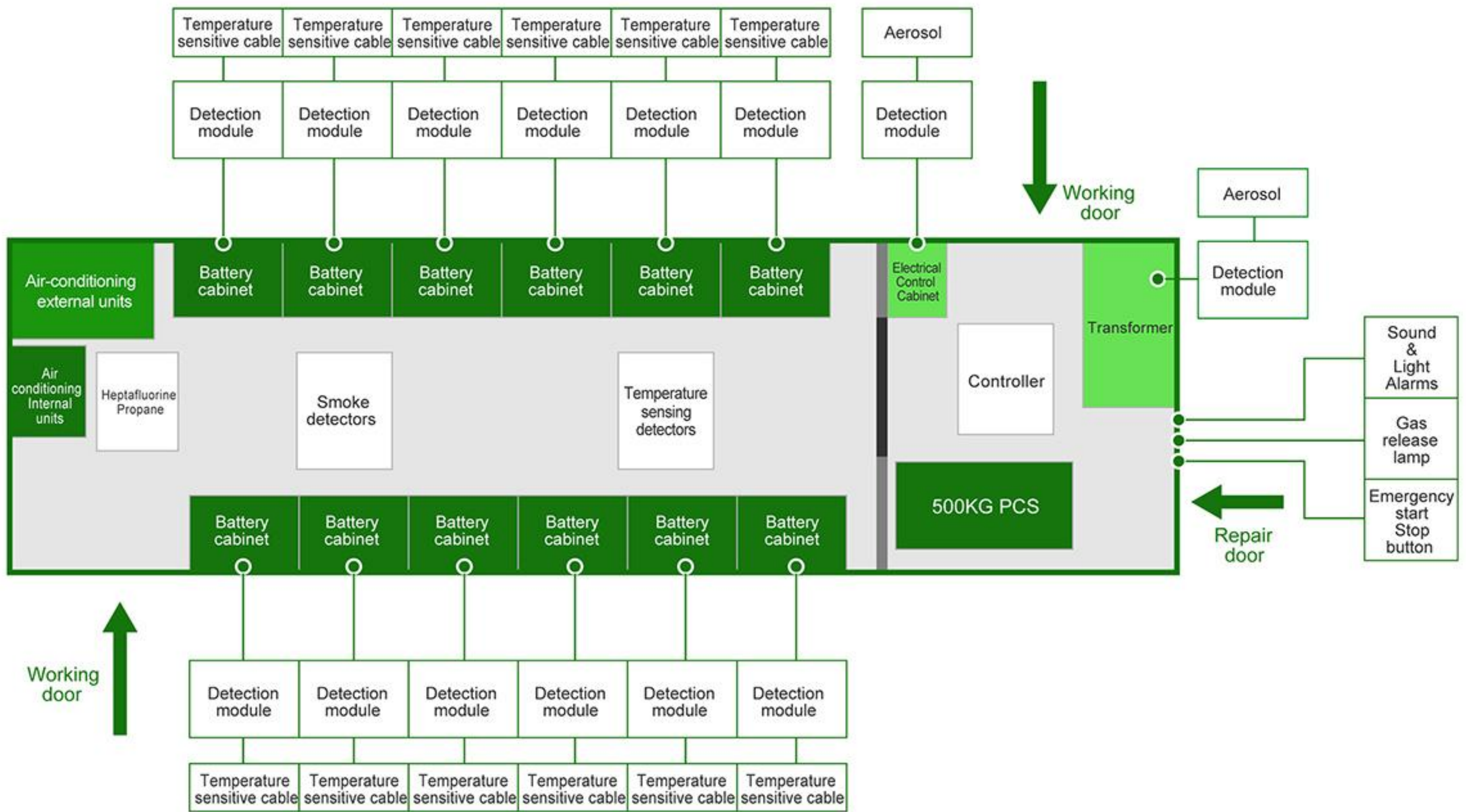
PRODUCT ADVANTAGE

- ☆ Flexible configuration of battery system types and capacities according to customer requirements;
 - ☆ The PCS has a modular architecture, simple maintenance and flexible configuration, allowing for multiple parallel machines;
 - ☆ Support parallel and off-grid operation mode, seamless switching, black start support EMS unattended system, locally controlled, cloud-monitored operation, with highly customized features;
 - ☆ Various modes including peak and valley reduction, demand response, backflow prevention, back-up power, command response, etc;
 - ☆ Complete gas fire extinguishing system and automatic fire monitoring and alarm system with audible and visual alarm and fault uploading;
 - ☆ Complete thermal and temperature control system to ensure that the battery compartment temperature is within the optimum operating range;
- Access control system with remote control and local operation.

ENERGY STORAGE CONTAINER STRUCTURE DISTRIBUTION MAP



FIRE FIGHTING TOPOLOGY FOR GAS RELEASE



PARAMETER FOR ESS CONTAINER SYSTEM

Specification	40FT ESS container system
Output power(KW)	250-1000(Customized)
Battery capacity(KWH)	1000-2000(Customized)
IP grade	IP54
Operating temperature	-20-55°C
Altitude(m)	3000
Size(L*W*Hm)	12.192×2.438×2.896
Heat Dissipation System	Industrial air conditioning/Forcedair cooling/Temperature control
Monitoring system	EMS/Video monitoring
Fire fighting systems	Heptafluoropropane
Access control systems	Equipped
Lighting systems	Normal&Emergency
BMS	Equipped

PRODUCT CASES





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