5MWh Energy Storage System

5MWh-628-0.5P

Efficient Temperature Control | Precise Firefighting | Convenient O&M



Efficient Temperature Control

- DCIR decreased by 28%, bringing less heat generation and higher energy efficiency.
- Temperature sensor ratio of more than 57%, ensuring more rapid and accurate temperature acquisition.
- Differentiated thicknesses of heat insulator, rendering more uniform and consistent expansion force of cells.

Precise Firefighting

- New self-developed separators improve thermal stability and puncture endurability, making the cells intrinsically safer.
- The module-level fire protection inside pack is paired with cabin-level gas firefighting, ensuring a hierarchical protection of the whole system.
- The fuse I^2T values of battery cluster switchgear unit and pack are well matched, providing a full-range fault current protection.

Convenient O&M

- Inside pack fire device but no firefighting pipelines for easy installation and maintenance.
- A design to be compatible with various tooling for flexible and easy assembly.
- Large pack maintenance window for easy BMS and fuse replacement without removing the upper cover.

Product Parameter

Cell

Item	Specification
Cell Model	MB56
Nominal Capacity	628Ah
Dimension (D*W*H)	71.7*352*205mm
Weight	11500g ± 300g
Rated Voltage	3.2V
Voltage Range	2.5V~3.65V
Operating Temperature	Charge: 0~60°C Discharge: -30~60°C

Module

Item	Specification
Pack Model	P156H201
Dimension (D*W*H)	2195*785*254mm
Weight	700 ± 10kg
Configuration	1P52S
Rated Energy	104.4kWh
Voltage Range	145.6V-187.2V
Rated Voltage	166.4V
Standard Charging and Discharging Rate	0.5P
Thermal Management	Liquid Cooling
Charging Operating Temperature	0°C~55°C
Discharging Operating Temperature	-20°C~55°C
Level of Protection	IP67
Certification	GB/T 36276, UN38.3, UL9540

System

Item	Specification
System Model	S556H201
Dimension (D*W*H)	2438*6058*2896mm
Weight	~45t
Configuration	1P416S*6
Rated Energy	5015kWh
Voltage Range	1164.8V~1497.6V
BMS Communication	RS485/Ethernet/CAN
Anti-corrosion Grade	C4H
Standard Charging and Discharging Rate	0.5P
Thermal Management	Liquid Cooling
Operating Temperature	-30°C~55°C
Relative Humidity	<95%RH (no condensation)
Level of Protection	IP55
Fire Suppression System	Aerosol