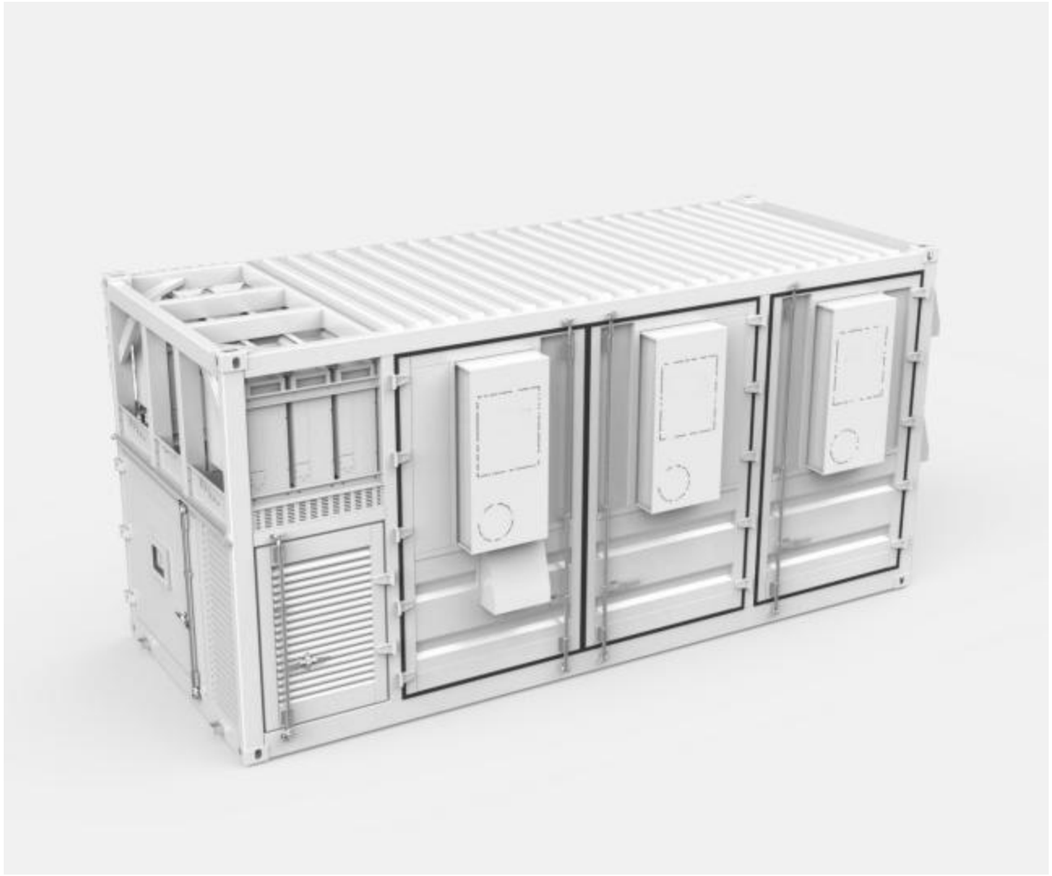


iCube

Air-Cooled 20-Foot Energy Storage System

Product Introduction

1、 A 1500 V air-cooled battery system featuring string-based design and cluster-level management, which reduces battery parallel operation, enhances system safety, and improves capacity utilization.

2、 Integrated AC/DC system design reduces the number of DC cables, resulting in lower initial costs.

3、 Single-stage DC/AC with high charge-discharge conversion efficiency.

4、 Standardized design in 20-foot sections facilitates transportation and installation, while simplifying on-site operation and maintenance.

industry Commercial complex Wind and Solar Power Plant thermal power station

Key Technical Indicators

Product model	ESS-0.6/1.978-FA	ESS-1.08/2.236-FA
DC-side parameters		
Battery type	Lithium iron phosphate (LFP)	
Cell cycle life	70% EOL, 10,000 cycles @ 0.5 C, 25 °C	
Cell specifications	3.2V/280Ah	
Battery pack configuration	1P368S	1P416S
Number of battery clusters	6	
Rated capacity	1,978kWh	2,236kWh
Rated voltage	1,177.6V	1331.2
Voltage range	1,030.4V~1,324.8V	1,164.8V~1,497.6V
BMScommunication interface	RS485,Ethernet	
BMSprotocol	Modbus RTU, Modbus TCP	
Communication parameters		
Rated AC power	600kW	1080kW
Rated AC current	502A	989.7A
Rated voltage	690V	630V
Power grid voltage range	3W+PE, -15%~10% (configurable)	
Output THDI	< 3%	
Power factor/adjustable range	>0.99 (rated output power) /1 (leading phase) ～ 1 (lagging phase)	
Overall Parameters		
Dimensions (L*W*H)	6,058X2,650X2,896mm	
System weight	26T	28.2T
Battery compartment protection rating	IP65	
PCS cabin protection rating	IP66	
Electrical room protection rating	IP54	
Operating temperature range	-20~50℃	
Relative humidity range	0–95% (no condensation)	
Maximum operating altitude	4000m	
Cooling-down method	Industrial-grade temperature-controlled air conditioning	
Fire extinguisher system	Heptafluoropropane or perfluorohexanone (may be selected for water-based fire suppression)	
Communication interface	RS485,Ethernet	

- Industrial and commercial energy storage systems can offer a wider range of customized options based on the scale of the partnership.