





SUNTERA



JKS-3440AL Battery System

JKS-3440AL is a new generation of utility-scale energy storage system with advanced design principle. The system features of effective liquid cooling, higher efficiency, higher safety and Intelligent O&M. The modular design can satisfy the majority of demanding applications and emerging scenarios, and deliver the most services and value to customers and the grid.



Effective Liquid Cooling

-  Non-uniform and refined pipeline design, achieving temperature difference $\leq 2.5^{\circ}\text{C}$
-  Multiple liquid cooling control modes and auxiliary power consumption decrease by 20%



Higher Safety

-  Multiple level protection from cell to system to prevent from uncontrolled heat spread
-  Equipped with deflagration venting, gas fire protection and water suppression to ensure the final protection

Higher Efficiency

-  Adopting cluster management technology and system efficiency increases by 1%
-  Cell to Cell active balance ensures the consistency between cells

Intelligent O&M

-  Smart management and real time monitoring ensures high efficient commission
-  Compact design with side-by-side layout and standard 20ft container design ensures 6.88MWh/40FT



ESS in Power Generation

Support the widescale deployment of renewable energy and provide ancillary services of the grid



ESS in Power Transmission and Distribution

Release existing transmission capacity and relieve network peak load



ESS in Power Consumption

Supplement to the electricity supply, reducing the cost and ensuring the stable power network



Items	Parameters
Type of cell	Lithium Iron Phosphate(LFP)
Cell parameters	3.2V/280Ah
Max. charge/discharge power	0.5P
Configuration of system	1P384S×10
Rated capacity	3.44 MWh
Rated voltage	1228.8V
Voltage range	1075.2~1382.4V
Cooling method	Liquid Cooling
Environmental temperature	-20~50°C
Environmental humidity	≤95%RH, Non condensation
Altitude	≤2000m / <4000m (optional, derating)
Noise level	< 80dB(A), @1m
IP Grade	IP54
Storage temperature	-20~45°C
Corrosion-proof grade	C3(EN ISO 12944)/C4 (optional)/C5(optional)
Fire protection	Gas Sensors+Deflagration Venting+ FM200/Novac 1230/Aerosol + Water Dry Pipe
External communication interface	Ethernet/Fiber (Optional)
Dimensions (L×W×H)	6058×2438×2896mm
Weight	≈35000 kg

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