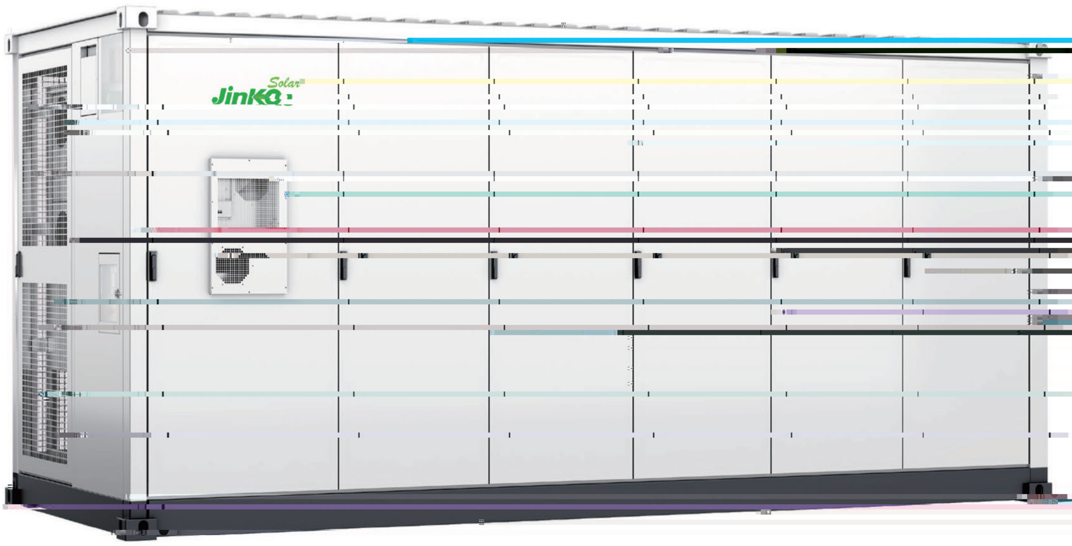
JinkoSolar Delivers 20MWh SunTera Energy Storage System to Baizhang Wind Farm

Safety is the critical consideration of energy storage customers, JinkoSolar adheres to the safety design

JKE-3440K-2H-LAA

Liquid cooling energy storage system



SunTera is JinkoSolar's new generation of liquid cooling energy storage product, which is equipped with 280Ah LFP cells and integrated with the industry's advanced design concept to build a safe, reliable, low cost and high performance product that provides customers with highly efficient integrated energy storage solutions. In the context of building a new type of power system, JinkoSolar will continue to uphold the mission of changing the energy structure and taking responsibility for the future to provide more reliable products and better experience to customers worldwide.

Safe and reliable

- Separated battery and electrical compartment design to effectively avoid thermal runaway.
- Multi-level fire warning to monitor early thermal runaway.

Excellent performance

- Highly efficient liquid cooling technology, the temperature difference of cells is controlled within 3°C, which effectively improve the system life.
- Intelligent cluster level management to improve system discharge level.

Flexible configuration

- Modular design to support 1000V/1500V systems.
- Compatible with many tier-1 PCS brands, providing flexible and customized solutions.

Cost reduction and efficiency

- Compact design with side-by-side layout and standard 20ft container design ensures 3.44MWh capacity in 20ft space.
- Pre-installed design effectively reduces shipping, installation and O&M costs.

ESS in Power Generation

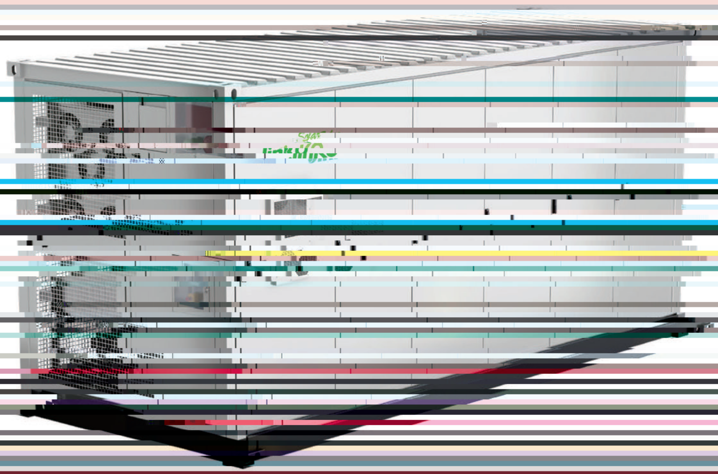
Enhance the stability, continuity and controllability of new energy generation to provide stability support to the grid.

ESS in Grid Side

Participate in grid dispatching to meet the demand of grid peaking and frequency regulation, thus enhancing the flexibility and stability of the power system.

ESS in User Side

Relieving the load on the power grid, meeting the demand for electricity from different customers, improving the security of electricity on the customer's side, and thus enhancing the customer's experience of using electricity.



Battery parameter	
Type of cell	Lithium Iron Phosphate (LFP)
Cell parameter	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
Operating temperature	-20~50°C
Humidity	≤95% RH, no 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	Temperature sensor+Smoke sensor+combustible gas detector+deflagration venting+fire extinguishing gas+water sprinkler
External communication interface	Ethernet/Fiber (optional)
Dimension (L×W×H)	6058×2438×2896mm
Weight	≈35000 kg