

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. SunTera has a safer, reliable, low cost and highly performance product and provides customers with highly efficient integrated energy storage solutions. In the next decade, with the continuous development of the energy storage system, JinkoSolar will continue to uphold the mission of changing the energy structure and taking responsibility for the future. We will provide more reliable products and better experience for users.



Safe and reliable

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



Excellent performance

- High efficiency and low self-discharge rate, with a temperature difference of 67°C, the efficiency is within 2.5%, which effectively improves the system life
- Intelligent cluster-level management to improve system discharge level



Flexible configuration

- Modular design to support 1000V/1500V systems
- Compatible with major LFP brands, providing flexible and customized solutions



Cost reduction and efficiency

- Compact design with side-by-side layout, each 20ft container design has a 5600Wh capacity, saving space
- Pre-installed design effectively reduces shipping, installation and O&M costs



ESS in Power Generation

Enhance the stability, efficiency and controllability of new energy generation to provide stable power supply for the area.



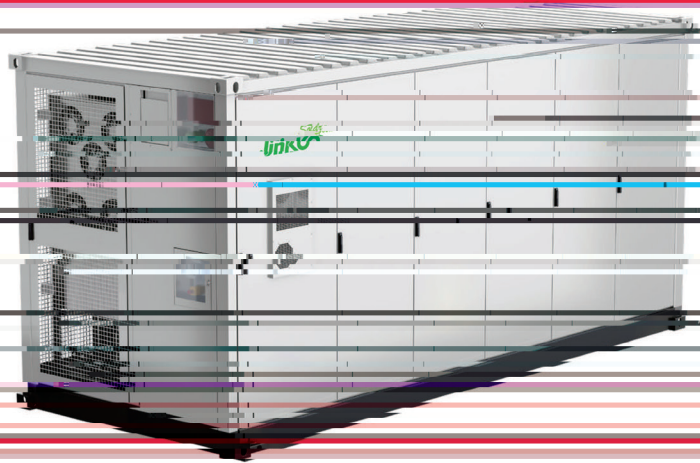
ESS in Grid Side

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 & efficiency on the customer's side, and thus enhancing the network's experience of using electricity.



Battery parameters

Type of cell	Lithium Iron Phosphate(LFP)
Cell parameter	3.2V/280Ah
Max. charge/discharge power	0.3C
Configuration of system	1U3S4X16
Rated capacity	3.44 MWh
Rated voltage	1228.8V
Voltage range	1075.2~1382.4V
Cooling method	Liquid Cooling
Operating temperature	-20~50℃
Humidity	15~95%RH (non-condensing)
Altitude	< 2000m, <4000m (optional, derating)
Noise level	< 80dB(A) @1m
IP grade	IP54
Storage temperature	20~45℃
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