

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 is 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 cell is controlled within 2.5 °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 6.88MWh capacity in 40FT 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 |