

Jinkosolar Deliver 6.8MWh Liquid Cooling Utility Scale ESS to Mideast

Jinkosolar will deliver two 20ft containerized SunTera with capacity of 6.8MWh, its Utility scale liquid cooling energy storage systems to Abaad Contracting Company in Mideast.

SunTera, Jinkosolar’s liquid cooling ESS features the highest energy density, ultra-safety, easier installation, smart O&M, and is compatible with all global energy standards, used by hundreds of energy storage projects around the globe.

SunTera employs advanced liquid cooling systems to regulate the temperature and control the temperature difference within 2.5 Celsius degrees

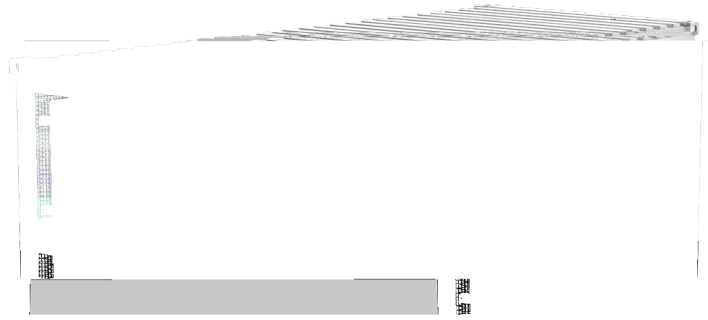
during the operation of Utility scale energy storage systems. As a result, it improves heat dissipation, can handle higher heat loads while maintaining lower operating temperatures. Liquid cooling systems provide a more uniform cooling distribution between battery units. In addition, compared to traditional air-cooled containers, liquid cooling systems can increase energy density by 50%, saving over 40% of the floor space, and can save approximately 20% more auxiliary energy. Simultaneously, they maintain suitable cell temperatures and better temperature uniformity, effectively extending battery life, reducing economic input, and shortening the payback period.





ESS in Power Generation

Enhance the stability, continuity and controllability of new energy generation to



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