



SunTera G3

6.25MWh

Energy Storage System

The Jinko ESS 6.25 MWh energy storage system leverages our latest liquid-cooled technology and high-capacity 588 Ah LiFePO₄ cells to achieve industry-leading energy density, safety, and efficiency. Engineered for grid-scale applications, it maximizes storage capacity and long-term reliability in a standardized 20-foot container layout.



Intelligent Liquid Cooling for Thermal Stability

Features a serpentine multi-parallel flow channel design that maintains a cell temperature difference of less than 2.5°C. Multiple cooling control modes optimize thermal management and reduce auxiliary system power consumption.



Enhanced System Efficiency

Implements a rack-level energy management scheme, increasing RTE (Round-Trip Efficiency) by over 1%. Integrated with active balancing technology to boost available charge/discharge capacity by 5%.



Comprehensive Safety Architecture

Equipped with five-tier protection from cell to system level to prevent thermal runaway. Combines gas detection and water-based fire suppression in a hybrid explosion-proof system for enhanced hazard containment.



Smart O&M & Flexible Deployment

Intelligent control system streamlines commissioning and lowers operational costs. Supports flexible placement configurations (back-to-back or side-by-side) to maximize energy density and adapt to site layout.



Solar-Storage Integration

Seamlessly combine solar PV generation with energy storage to optimize self-consumption, maximize renewable utilization, and ensure a continuous, stable power supply.



Grid Support Services

Deliver critical grid services including frequency regulation, voltage support, and peak shaving to enhance network stability, reliability, and power quality.



Energy Market Participation

Enable revenue generation through energy arbitrage, capacity markets, and ancillary service provision, creating economic value while supporting overall grid efficiency.



Battery parameters

Type of cell	Lithium Iron Phosphate(LFP)
Cell specification	3.2V/588Ah
Max.charge/discharge power	0.5P/0.25P
Configuration of system	1P416S×8
Rated capacity	6.25 MWh
Rated voltage	1331.2V
Voltage range	1164.8~1497.6V

System parameters

Dimension(L×W×H)	6058×2438×2896mm
Weight	50,000 kg
Cooling method	Liquid Cooling
Operating temperature	-40~55°C
Operating humidity	≤100%RH
Altitude	<4500m
Noise level	≤80dB(A), @1m/ 75dB(optional)
IP grade	IP55
Corrosion class	C4/(C5 optional)
Fire suppression system	Temperature sensor + Smoke detector + Combustible gas detector + Deflagration venting + Aerosol + Water sprinkler
Communication	Ethernet / CAN
Certification Standards	IEC62619, IEC61000, IEC62477, UL9540A, UL1973, UL9540, NFPA68, NFPA69, NFPA855