

Tera G3

6.25 MWh

ENERGY STORAGE SYSTEM

This next-generation liquid-cooled energy storage system from Jinko ESS integrates high-capacity 587 Ah LFP cells, delivering enhanced energy density, safety, and system efficiency. Designed for grid-scale applications, it maximizes storage capacity and long-term reliability within a standardized 20-foot container, enabling high-performance and scalable deployment.



Key Features



High Energy Density & Advanced Energy Management

Optimized system architecture with high-capacity 587 Ah LFP. Active balancing improves energy utilization, supporting higher usable capacity and stable long-term performance.



Safe & Robust System Architecture

Multi-layer protection from cell to system level, integrating thermal, electrical, and fire protection. Advanced fire and gas safety design enables early fault detection and controlled system response.



Optimized Thermal Management

Liquid cooling system with advanced multi-channel flow design, maintaining low temperature gradients at cell level. Enhanced thermal stability supports longer lifetime and consistent performance.



Flexible Deployment

Containerized and modular architecture enabling flexible layouts (back-to-back or side-by-side) and efficient site utilization.

Typical Applications



Renewable Integration & Output Stabilization

Smooths solar and wind generation, manages ramp rates, and reduces curtailment, supporting grid compliance and improving renewable asset performance.



Grid Congestion Management

Stores excess energy during network constraints and releases it during peak demand, optimizing grid utilization and deferring infrastructure upgrades.



Capacity & Ancillary Services

Provides fast-response power for capacity markets, frequency regulation, and balancing services, enhancing system stability and flexibility.



Energy Arbitrage & Revenue Optimization

Charges during low-price periods and discharges at peak prices, enabling participation in wholesale markets and maximizing project revenue potential.

Battery Parameters

Cell Type	Lithium Iron Phosphate (LFP)
Cell Parameters	3.2 V / 587 Ah
Max. Charge / Discharge Power	0.5P
Configuration	1P416S × 8
Nominal Capacity	6.25 MWh
Nominal Voltage	1331.2 V
Operating Voltage Range	1081.6 - 1497.6 V

System Parameters

Dimensions (L×W×H)	6058 × 2438 × 2896 mm
Weight	50,000 kg
Cooling Method	Liquid Cooling
Operating Temperature	Up to -40 °C to +55 °C
Humidity	≤ 100% RH
Altitude	Up to 4500 m
Noise Level	80 dB(A) @1m / 75 dB (optional)
IP Rating	IP55
Corrosion Class	C4 (C5 optional)
Fire Suppression System	Temperature sensor + Smoke detector + Combustible gas detectors + Aerosol + Water sprinkler + Optional deflagration panels
Communication	Ethernet / CAN



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