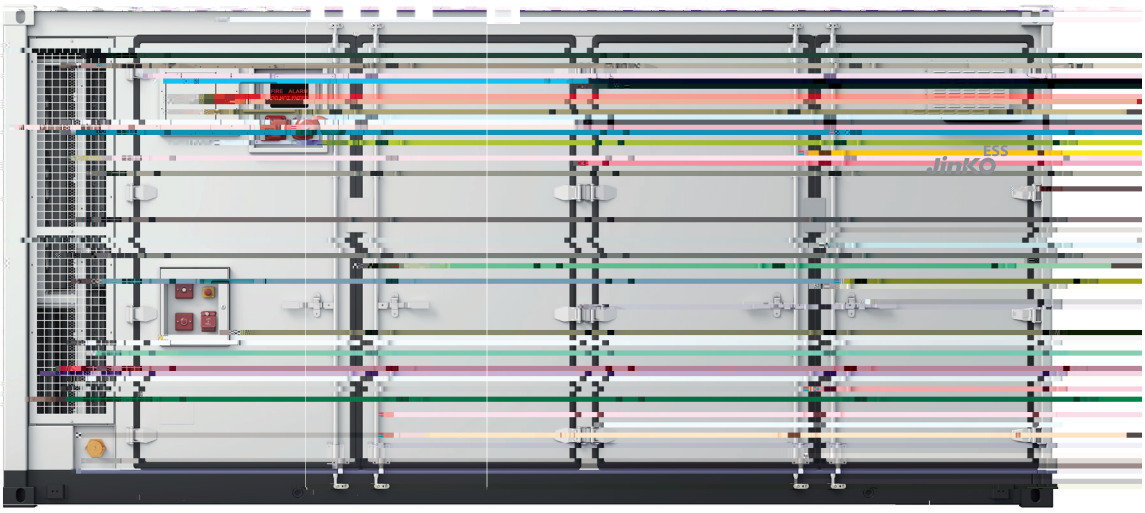


SunTera G2 5.01MWh

Energy Storage System

our liquid-cooled platform with integrated 314 Ah $LiFePO_4$ cells, delivering exceptional safety, efficiency, and reliability. Designed to support grid modernization, it offers high performance and extended cycle life within a compact 20-foot container.

Engineered for High E ciency & Density

System and container design is optimized to maximize energy density and spatial efficiency. Advanced system-level management minimizes auxiliary power consumption while ensuring stable, high-performance operation.

Multi-Layer Safety & Protection

Incorporates comprehensive protection across cell, module, and system levels—integrating thermal, electrical, and fire safety controls. A unified fire and gas safety system with multi-sensor detection and controlled venting ensures early hazard identification and a safe system response.

Flexible, Scalable Deployment

A fully containerized, modular architecture allows versatile layout configurations (e.g., back-to-back, side-by-side) to optimize site footprint.

Long-Term Performance & Durability

Equipped with high-capacity 314 Ah LFP cells, engineered for stability and long service life in demanding applications. Excellent thermal uniformity at the cell level minimizes temperature differentials, reducing degradation risks and extending system longevity.

Solar-Storage Integration

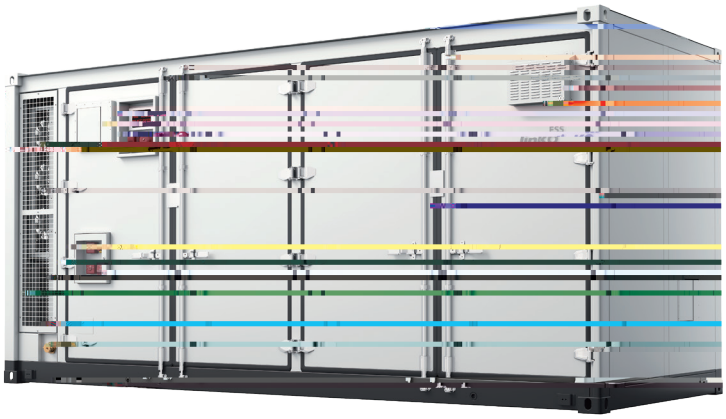
Seamlessly combine solar PV generation with energy storage to optimize self-consumption, maximize renewable utilization, and ensure a continuous, stable power supply.

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.



Type of cell	
Cell specification	3.2V/314Ah
Charge/discharge power	0.25P/0.5P
Configuration of system	1P416S × 12
Rated capacity	5.01 MWh
Rated voltage	1331.2V
Voltage range	1164.8~1497.6V

System parameters

Dimension(L × W × H)	6058 × 2438 × 2896mm
Weight	42,000 kg
h	Liquid Cooling
	-30~50°C
Operating humidity	≤ 95%RH, no condensation
Altitude	≤ 3,000m (derating above 2000 m)
Noise level	≤ 80dB(A), @1m/ 75dB(optional)
IP grade	IP55
Corrosion class	C4/(C5 optional)
Communication	Ethernet / Modbus TCP/IP
Certification standards	