SunTera

UTILITY SCALE BATTERY SYSTEM

SunTera from JinKo represents the new generation of utility-scale energy storage systems with advanced design principles. The highly efficient system is fully integrated featuring advanced liquid cooling, high capacity prismatic battery cells and intelligent O&M.

In addition to the inherent safety afforded by the Lithium Phosphate battery chemistry, SunTera is equipped with smoke, gas and heat detection systems as well as both active and passive fire suppression to assure peace of mind.

The modular design can satisfy a wide variety of demanding grid functions and emerging application scenarios, delivering value to customers and users of the grid.

Key Features

Advanced Liquid Cooling

Refined pipeline design, achieving peak temperature differential of ≤2.5 °C.

Multiple cooling modes and auxiliary controls, significantly reduce power consumption.

Enhanced Efficiency

Cluster management technology increases system efficiency by 1%.

Higher Safety

Multiple level protection from cell to system provides early warnings and prevents uncontrolled heat spread.

Equipped with deflagration panels, active venting, gas, smoke and heat detection, linked to aerosol fire protection and water suppression to ensure protection.

Intelligent O&M

Smart management and real time monitoring ensures highly efficient commissioning on-site.

Compact design with side-by-side layout and standard 20ft container design ensures 6.88MWh / 40FT.

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Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in datasheets are subject to change without notice.

SunTera 3.44 MWh
JKS-3440AL
www.jinkosolar.eu

Applications

BESS in Power Generation

Support the wide scale deployment of renewable energy and provide ancillary services to the grid.

BESS in Power Transmission and Distribution

Provides a reservoir of energy if grid is down. Can be deployed in areas without electricity.

BESS in Power Consumption

Enhances the power grid, reducing costs and ensuring a stable power network.

Items	Parameters
Type of Cell	Lithium Iron Phosphate (LFP)
Capacity (BOL)	3.44MWh
Cell Parameters	3.2V / 280Ah
Max. Charge / Discharge Power	0.5P
Battery Voltage	1228.8V (Nominal), 1382V (Charge)
Cooling Method	Liquid Cooling
Environmental Temperature	-20~50°C
Storage Temperature	-20~45°C
Environmental Humidity	≤95% RH, Non-condensing
Altitude	≤2000m / <4000m (optional, derating)
IP Grade	IP54
Corrosion-Proof Grade	Site specific, up to C5 (EN ISO 12994)
Communication Interface	Ethernet / ModBus / Fibre (optional)
Fire Protection	Gas sensors + Deflagration Venting + FM200/ Novec 1230/Aerosol + Water Dry Pipe
Certificates	EC62619/ UL1973/ UL9540A/ IEC63056/ IEC61000/ UN38.3
Weight	≈35000kg
Dimensions	6058x2438x2896mm

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