

SunGiga G1

215 kWh

COMMERCIAL & INDUSTRIAL BATTERY SYSTEM

Jinko ESS SunGiga G1 is a compact, all-in-one liquid-cooled energy storage system designed for commercial and industrial applications.

It integrates battery modules, PCS, BMS, thermal management and fire protection into a single factory-tested cabinet, delivering 215 kWh of usable energy. The system combines high safety and reliability, flexible deployment and an intelligent liquid-cooling, enabling scalable, efficient and secure energy storage across a wide range of application scenarios.



Key Features



Integrated All-in-One Design

Compact cabinet integrating battery modules, PCS, BMS, thermal management and fire protection into a single factory-tested system.



Plug-and-Play Integration

Delivered as a fully assembled and factory-tested solution, minimizing on-site installation time and simplifying system commissioning.



Proven 280Ah LFP Cell Platform

High-quality 280Ah LiFePO₄ prismatic cells delivering stable performance and long service life, supporting up to 6,000 cycles.



Built for Harsh Environments

IP55 protection rating with optional C5 anti-corrosion coating ensures reliable performance under demanding environmental conditions.



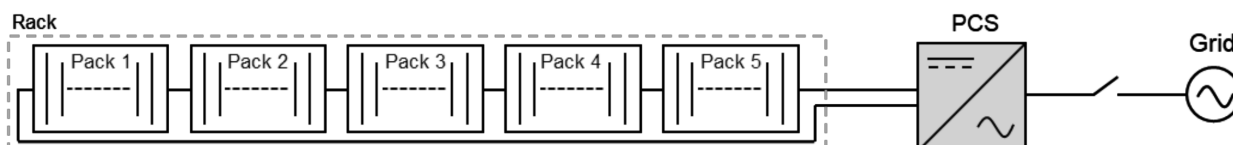
Multi-Layer Safety & Protection Concept

Cell-to-system protection combining thermal, electrical and fire safety layers, with multi-sensor detection and controlled gas exhaust.



Scalable Deployment

Supports parallel connection of up to 10 cabinets, allowing flexible capacity expansion.



Battery Parameters (DC Side)

Cell Type	Lithium Iron Phosphate (LFP)
Cell Specification	3.2 V / 280 Ah
Max. Charge / Discharge Power	0.5 P
Configuration	1P240S
Nominal Capacity	215 kWh
Nominal Voltage	768 V
Operating Voltage Range	672 V ~ 864 V

System Parameters

Dimension (L×W×H)	1300 × 1300 × 2300 mm
Weight	2,800 kg
Cooling Method	Liquid Cooling
Operating Temperature	-20 ~ 55 °C (derating from 45°C)
Humidity	≤ 95% RH, no condensation
Altitude	≤ 2000 m
IP Rating	IP55
Corrosion Class	C3 (C5 optional)
Fire Suppression System	Aerosol fire-extinguishing system with integrated smoke, temperature, and flammable gas detection
Max Units in Parallel	10 units
Communication	Ethernet / Modbus TCP/IP
Compliance	IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 9540A, UN 38.3

PCS Parameters (AC Side)

Nominal AC Power	100 kW
Nominal AC Voltage	400 V _{AC} (3P4W)
Nominal Frequency	50 Hz/60 Hz
THDi / Harmonic Limits	<3%



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