

SunGiga G2 Plus

520 kWh

COMMERCIAL & INDUSTRIAL BATTERY SYSTEM

Jinko ESS SunGiga G2 Plus 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 522 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.

With a 4-hour duration configuration, the system is optimized for extended discharge applications, enhancing energy shifting capability and maximizing project value.



Key Features



In-House LFP Cell Technology

In-house developed 314Ah LFP cells ensure consistent quality control, secure supply stability and long-term product reliability, supporting up to 8,000 cycles.



Increased Energy Density

Provides 522 kWh of usable energy within approximately 2.7 m² footprint, improving footprint energy density by 52% compared to the previous generation.



Flexible Grid & Stand-Alone Capability

Integrated PCS supports both grid-connected and stand-alone operation modes, enabling adaptable deployment.



Plug-and-Play Integration

Delivered as a fully assembled and factory-tested system, reducing on-site installation time, simplifying commissioning and lowering overall project execution risk.



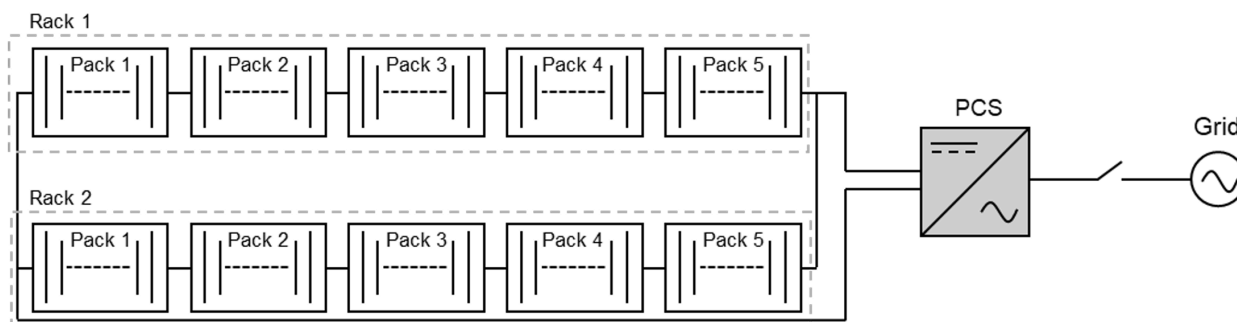
Multi-Layer Safety & Protection Concept

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 6 cabinets, allowing flexible capacity expansion.



Battery Parameters (DC Side)

Cell Type	Lithium Iron Phosphate (LFP)
Cell Parameters	3.2 V / 314 Ah
Max. Charge / Discharge Power	0.25 P
Configuration	2P260S
Nominal Capacity	522 kWh
Nominal Voltage	832 V
Operating Voltage Range	728 V ~ 936 V

System Parameters

Dimension (L×W×H)	1,920 × 1,430 × 2,400 mm
Weight	5,000 kg
Cooling Method	Liquid Cooling
Operating Temperature	-30 ~ 55 °C, derating from 45°C
Operating Humidity	≤ 95% RH, no condensation
Operating Altitude	≤ 3,000 m
IP Rating	IP55
Corrosion Class	C3 (C5 optional)
Fire Suppression System	Aerosol fire suppression system with integrated smoke, temperature and flammable gas detection
Max Units in Parallel	6 units
Communication Protocol	Modbus TCP/IP (via Ethernet)
Compliance	IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 9540A, UN 38.3

PCS Parameters (AC Side)

Nominal AC Power	130.5 kW
Nominal AC Voltage	400 V _{AC} (3P4W)
Nominal Frequency	50 Hz/60 Hz
THDi / Harmonic Limits	<3%



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