SunGiga 261 kWh

COMMERCIAL & INDUSTRIAL BATTERY SYSTEM

The SunGiga 261 kWh energy storage system delivers high performance and reliability for commercial and industrial use. It features Lithium Iron Phosphate (LFP) batteries with an 832V nominal voltage and advanced liquid cooling for optimal efficiency.

With a 135 kW AC output and 400V nominal AC voltage, SunGiga ensures stable operation. Its IP55-rated enclosure, C3-M/C5 anti-corrosion protection, and multi-layered fire suppression system enhance durability and safety.

Designed for extreme conditions, it operates from -30°C to 50°C, up to 3,000m altitude, and in 95% humidity. Seamless RS485, CAN, and Ethernet integration make it ideal for smart grids. Compact yet powerful (960 × 1400 × 2400 mm) and fully certified, SunGiga is a scalable solution for efficient energy storage.

Key Features

Efficient & Flexible

A “system-wide” approach boosts flexibility, extends lifespan, reduces maintenance, and lowers the Levelized Cost of Storage (LCOS).

Advanced dynamic battery management and custom liquid cooling enhance efficiency and battery longevity.

Reliable & Safe

utting-edge high-capacity LFP prismatic batteries are designed for maximum safety and reliability.

Smart monitoring with Command & Control logi ensures continuous performance tracking and optimal battery safety.

An integrated Thermal Management System (TMS) enhances performance and extends battery life.

Highly Integrated

261 kWh, 135 kW Battery System.

Battery Management Systems (BMS).

Power Conversion System (PCS).

Energy Management System (EMS).

Thermal Management System (TMS).

Liquid cooling design maintains consistent battery cell temperatures.

Smart Software

Real-time monitoring tracks battery performance and system status, providing immediate insights.

Secure cloud platform offers safe, centralized data access and control.

Adaptive algorithms automatically adjust system parameters for optimized, precise control.

Applications

Peak Demand Management

Optimizing demand management through Peak Shaving and Peak Shifting.

Energy Backup

Provides a reliable power reserve, ensuring continuous operation during grid outages. Ideal for deployment in remote areas without conventional electricity access.

Renewables Integration

Mitigate renewable intermittency with smart energy storage and grid balancing for a stable, reliable power supply.

Infrastructure Enhancement

Distributed networks lower the investment needed for full grid construction and repair.

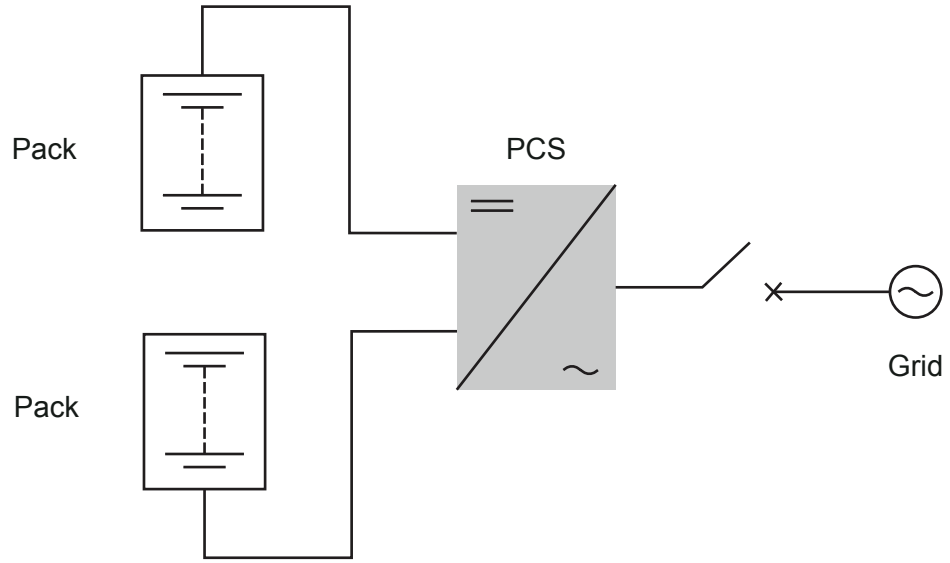
EV Charge Support

Seamlessly integrate EV charging into local grids for efficient, reliable energy delivery.

Arbitrage

Enables seamless energy trading, allowing users to take advantage of price fluctuations in the energy market.

Example below shows 2x SunGiga 261kWh cabinets giving 522kWh.



Solution Data	
Battery Model	LFP-3.2V/314Ah
Charge / Discharge Rate	≤ 0.5P
Battery Nominal Energy (kWh)	261 kWh
Battery Voltage	832V (Range: 702.0V~936V)
Nominal AC Output Power	135 kW
Nominal Output Voltage	400V
Power Electronics Cooling	Intelligent Air Cooling
Battery Cooling Type	Liquid Cooling
Environment Temperature Range	-30 to +50°C
Storage Temperature	-20 to +45°C
Environmental Humidity	≤95%RH, No Condensation
Operating Altitude	≤3000m
Ingress Protection	IP55
Anti-Corrosion Grade	C3-M/C5 Optional
Weight	< 2.800kg
Seismic Grade	Level 7
Fire Suppression System	Perfluorohexanone + Pack Level Active Fire Prevention
Cabinet Dimensions (W x D x H)	960 × 1400 × 2400 mm
Battery Level Certifications	CE(IEC61000,IEC62619,IEC62477),UN3480,UN38.3,MSDS
Comms Protocol	RS485 / Canbus / Ethernet / Modbus

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.