

SunGiga All in One

COMMERCIAL & INDUSTRIAL BATTERY SYSTEM

- **Fully Integrated Cabinet Design:** Utilising safe LFP technology, our C&I battery solution comprises our BMS, EMS & PCS inside its compact and sleek IP54 cabinet which is fully protected by our robust safety features.
- **Smart Thermal Management:** Maintains optimal operating temperatures for performance and longevity.
- **Built-In Fire Safety:** Multi-layered fire suppression system ensures safe operation in all conditions.
- **Modular & Scalable:** Easily deployed alone or in parallel for larger capacity needs.
- **Versatile Applications:** Ideal for peak shaving, load shifting, renewable integration and more.



Key Features



Efficient & Flexible

A “system-wide” approach enhances flexibility, extends lifetime, reduces maintenance, and lowers Levelized Cost of Storage LCOS.

Dynamic battery management and custom liquid cooling for improved efficiency and longer battery life.



Reliable & Safe

Cutting-edge, high capacity, safe LFP prismatic batteries designed for stability and long service life.

Smart monitoring with Command & Control logic ensure battery safety.



Highly Integrated

215 kWh energy capacity with 100 kW output.
Battery Management Systems (BMS).
Power Conversion System (PCS).
Energy Management System (EMS).
Thermal Management System (TMS).



Smart Software

Real time monitoring & secure cloud management.
Adaptive algorithms for precision control and system optimization.

Remote diagnostics and updates for streamlined operations.

Applications



Peak Demand Management

Optimises energy consumption through Peak Shaving and Peak Shifting, reducing demand charges and grid dependency.



Energy Trading & Arbitrage

Maximises revenue by executing arbitrage strategies, charging during low-price periods and discharging during peak-price windows.



Renewables Integration

Balances the intermittency of solar and wind generation by storing excess energy for later dispatch.



Infrastructure Enhancement

Supports distributed energy models, minimising the need for costly grid upgrades and expanding access to power in underserved regions.



EV Charge Support

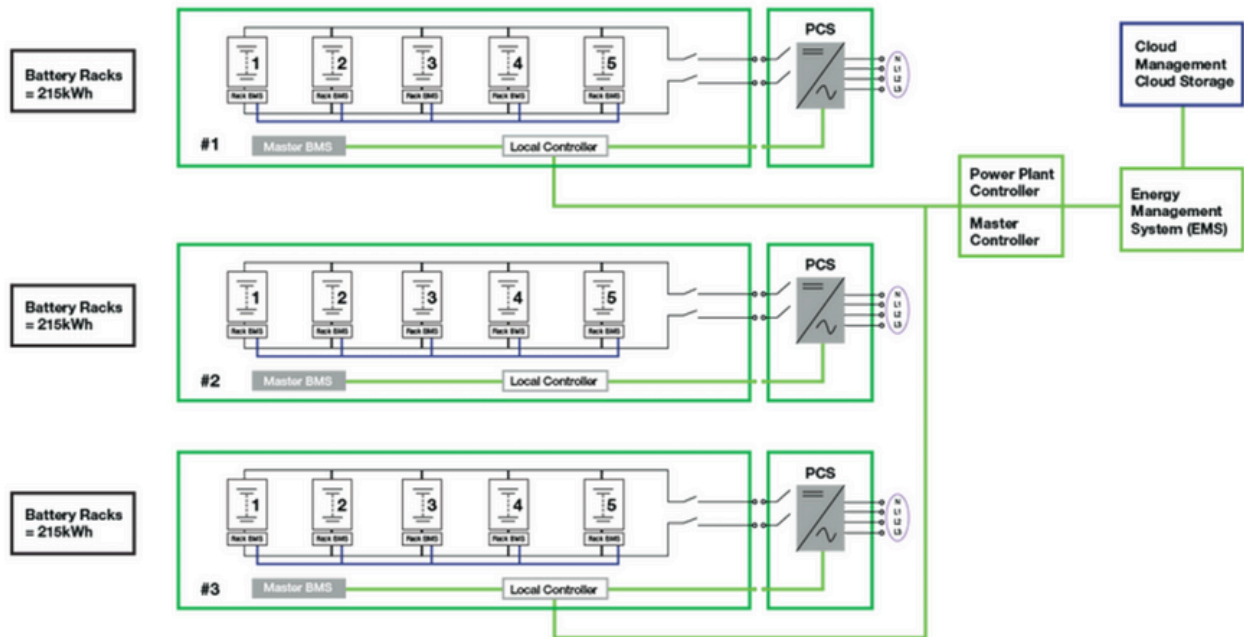
Seamlessly supports local EV charging infrastructure, reducing grid strain and enabling smarter energy use.



Grid stability & Power Quality

Enhances grid stability by providing rapid frequency response voltage support and improving power quality, ensuring a more resilient and reliable network

Example below shows 3x SunGiga 215 cabinets giving 645 kWh.



Solution Data

Battery Model	LFP, 3.2V, 280Ah
Charge / Discharge Rate	≤ 0.5P
Battery Nominal Energy (kWh)	215kWh
Battery Voltage / Range	768V (Nominal) / 672V~864V (Range)
Nominal AC Output Power	100kW
Nominal Output Voltage	3L/N/PE, 400 Vac
Power Electronics Cooling	Intelligent forced air cooling
Battery Cooling Type	Liquid Cooling - Water / Glycol
Environment Temperature Range	-20°C to +50°C
Storage Temperature	-20°C to +45°C
Environmental Humidity	≤ 95% non-condensing
Operating Altitude	≤ 2000m
Degree of Protection	IP55 (Battery compartment) - IP67 (Battery pack)
Anti-Corrosion Grade	Site specific, up to C5 optional (EN ISO 12944)
Weight	< 2300kg
Seismic Grade	Level 7
Fire Suppression System	Heat, Smoke, Gas detection, Active ventilation, Aerosol Fire Suppression System
Cabinet Dimensions (W x D x H)	1300 x 1300 x 2300mm
Certifications & Standards	IEC62619, IEC 63056, IEC61000, IEC62477, UN38.3, UL9540A
Comms Protocol	Modbus / Ethernet / RS485 / CAN

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Note: Please read all relevant manuals before using the product. Datasheet Version: 1.3.
We reserve the right of final interpretation. Specifications are subject to change without notice.

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