

POWERSTACK 200CS

LIQUID-COOLED C&I ENERGY STORAGE SYSTEM

FOR DISTRIBUTION BUSINESS



MAXIMISE ENERGY UTILISATION



High efficiency

Liquid Cooling, efficient and compact design



Seamless Integration

Integrated with Sungrow and 3rd party PV systems



Ultimate Safety

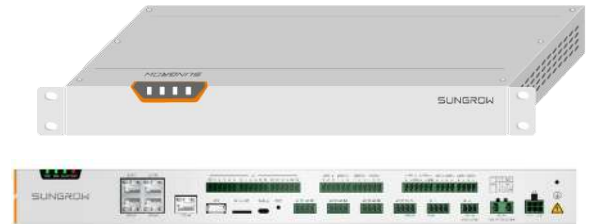
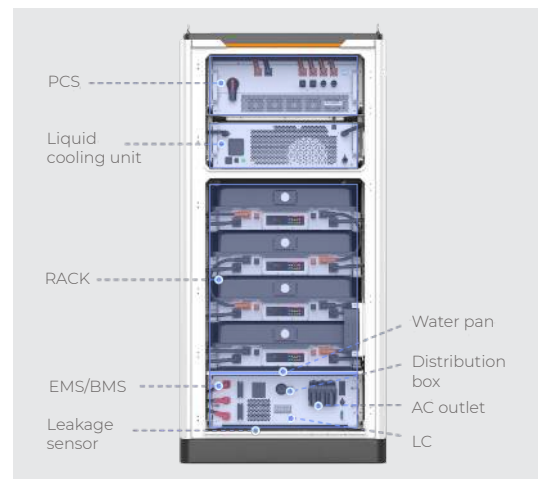
Best-in-class safety and fire protection system

PowerStack 200CS Series

Sungrow's next-generation Commercial & Industrial Energy Storage System (C&I ESS) is an AC coupled system. It features the *ST225kWh-110kW-2h* model, offering a capacity of 229 kWh with a power output of 110 kW and a 2-hour duration.

EMS300CP

The EMS300CP is the energy management system controller for the PowerStack. It enables multiple PowerStack units to operate seamlessly together and integrates with Sungrow PV and EV charging solutions for a complete system application.



Key Features at a Glance

Multiple Business Models

The PowerStack system supports various applications, including:

- Energy Arbitrage
- FCAS
- Demand Control
- Peak Shaving

Enhanced Efficiency

The liquid-cooled design ensures optimal thermal management, leading to improved system performance and longevity.

Effortless Operations

Designed for user-friendly operation, the system simplifies energy management for businesses.

Flexible Possibilities

Tailored for diverse industrial and commercial energy storage needs, the PowerStack system offers adaptable solutions to meet specific operational requirements.

Enhanced Profitability

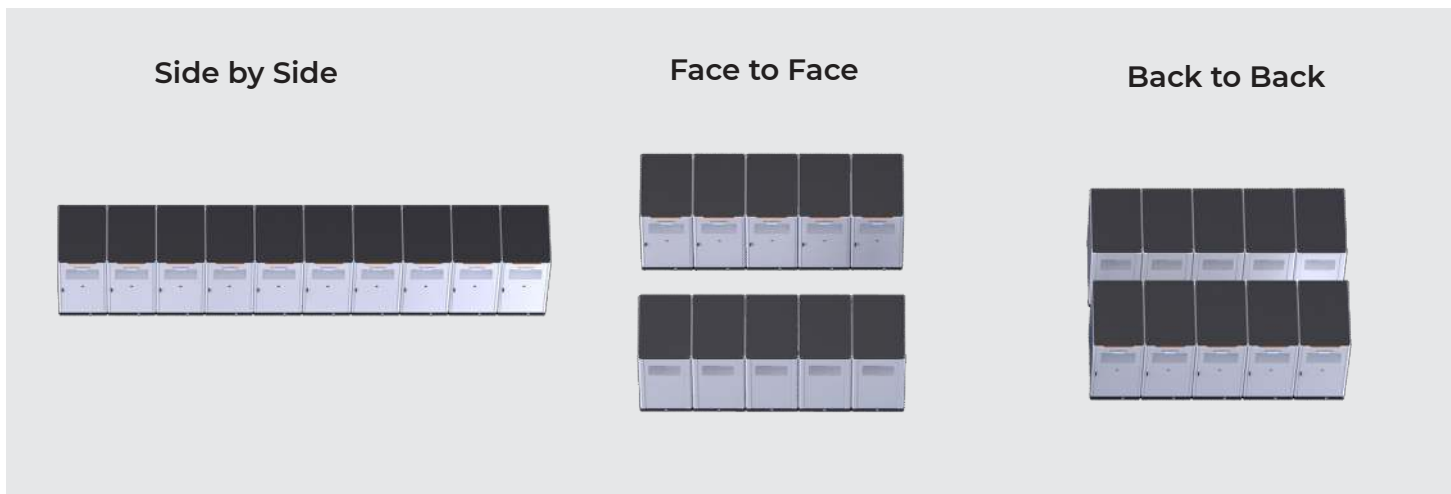
By optimising energy usage and participating in various energy markets, businesses can achieve significant cost savings and revenue generation.

Flexible layouts

Supporting up to 25 units in parallel (on-grid) for the **2-hour system**,
providing a capacity of up to 5.7 MWh.

All in one

The system integrates the EMS, PCS and BMS.



10 Reasons to Choose PowerStack 200CS Series

1. System RTE $\geq 90\%$

6. Local and Distant Regulation

2. Intelligent Energy Dispatch

7. Overall Cloud Control

3. Liquid-cooling Balanced Heat Dissipation

8. One-Stop Service

4. AI Controlled Thermal Balance

9. Four-in-one Safety Test

5. Intelligent Integrated Energy Storage

10. Five Layers of Safety Protection

FREQUENTLY ASKED QUESTIONS

1

What is the battery modules' state upon delivery?

The battery modules arrive pre-installed and connected within the PowerStack, reducing installation effort.

2

What is the resistance corrosion protection level?

The protection level is C5-L.

3

How many cycles does Sungrow guarantee for the battery system?

Sungrow guarantees 6,500 cycles for the battery system. Please refer to the Distribution Warranty Document on Sungrow website for all updated information and details regarding warranty conditions and warranty extension

4

Why does the system use liquid cooling, and what are its benefits?

The liquid cooling system ensures balanced heat dissipation, reducing temperature differences to $\leq 2.5^{\circ}\text{C}$. This improves efficiency, extends battery lifespan, and lowers overall system heat loss.

5

What fire suppression methods are included in the system?

The system includes a three-level fire safety system, such as a detection and alarm system, an aerosol-based extinguisher, smoke detector, a heat detector and a backup system consisting of a sprinkler.

6

Can partners commission the system themselves, or is Sungrow staff required?

Commissioning is carried out by Sungrow staff or trained Sungrow distributors and installers.

7

How can I find out if the product is certified for my country?

Please always check the latest certification overview on our website to ensure compliance with local regulations.

8

How do I connect the PowerStack to existing PV plant?

If you are using Sungrow CX or CX-P2 PV inverters with Logger1000 you can control the whole system via iSolarCloud including PowerStack thanks to EMS300CP optional controller.

The PowerStack is compatible with all major third party EMS systems.