



CXS-5MWB

Efficient, Safe, and Stable Energy Solutions

The CXS-5MWB Battery Energy Storage System is a cutting-edge solution in energy storage technology, designed for high performance, safety, and stable power delivery—making it suitable for a wide range of energy applications.



Ultra Capacity

- 5015.9 kWh capacity with four high-efficiency battery modules per rack.
- Operates at 1331.2 V, with a voltage range of 1164.8 V to 1497.6 V for stable power delivery.
- Cycle life > 10,000 cycles.



Exceptional Adaptability

- Operating temperature range: -30~55°C, ensuring stable performance in extreme conditions.
- Humidity tolerance: 5%~95%, adaptable to various climate environments.
- Liquid cooling system: Maintains optimal temperature, extends battery life, and improves efficiency.



Top-Tier Safety

- IP55 rating provides strong dust and water resistance for long-term stable operation.
- Dual fire protection system: aerosol extinguishers and automatic sprinklers ensure comprehensive safety.

Battery Cell

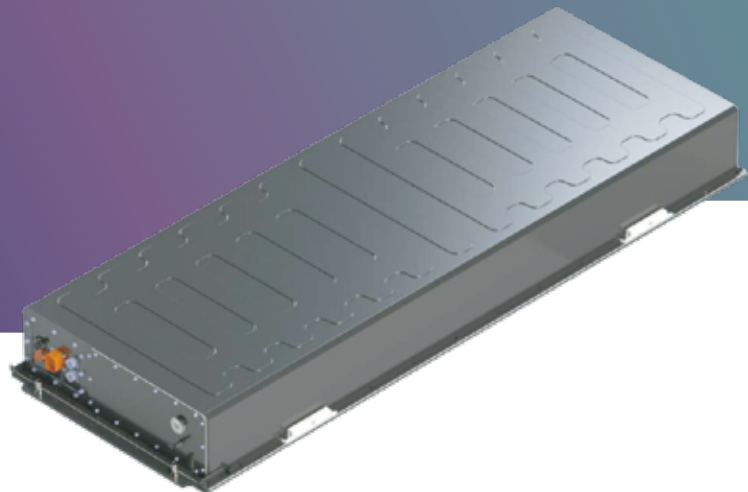
The Battery Cell used is Lithium Iron Phosphate Prismatic Cell.



Item	Specification	Note
Cell Type	Prismatic	IFP72175207-314Ah
Cell Chemistry	LiFePO4	
Dimension (T x W x H) (mm)	71.95 x 174.8 x 207.1	±0.5 mm, including cell pole
Weight (g)	5630±200	
Nominal Capacity (Ah)	314	25±2°C, 100% DOD
Nominal Voltage (V)	3.2	
Working Voltage Range (V)	2.5 ~ 3.65	T > 0°C
Nominal Capacity (Wh)	1004.6	25±2°C, 100% DOD
Maximum Charging / Discharging Rate	0.5C @ 25°C	

Battery Pack

The battery pack is mainly composed of battery cells in series, and the battery pack collects the single cell's voltage, temperature data, and controls the cell balancing. The first-level BMS is used to report the collected data.



Item	Specification	Note
Battery Pack Model	CX-BG314BP0A41R104-BL	
Dimension (L x W x H) (mm)	2192 x 785 x 240	±5 mm, including cooling pipe connector
Weight (kg)	685±10	
Nominal Voltage (V)	332.8	
Voltage Range (V)	291.2 ~ 374.4	25 ± 2°C, 100% DOD
Pack Grouping (Parallel and Serial)	1P104S	
Pack Capacity (kWh)	104.4	0.5P, 100% DOD, 25±2°C
Key Components	104 Cells, 2 BMS, and 1 Fuse	
Maximum Charging / Discharging Power (kW)	52.2	0.5P, 25±2°C
IP Class	IP67	

Battery Rack

Battery Rack is mainly composed of multiple Pack and Fuses.



IEC62619
IEC60730

IEC61000

UL1973

UL9540A

Rack A

Rack B



Item	Specification	Note
Battery Pack Model	CX-BG314004A41R418-BL	
Number of Packs per Rack	4	
Number of Racks per Shelf	2	
Nominal Capacity (kWh)	418.0	0.5P, 100% DOD, 25±2°C
Nominal Voltage (V)	1331.2	
Voltage Range (V)	1164.8 ~ 1497.6	25±2°C, 100% DOD
Maximum Charging / Discharging Power (kW)	208.9	0.5P, 25±2°C

Battery Container

Battery Container composes of battery racks and fuses.

The number of the racks depends on the total system capacity requirement.



Item	Specification	Note
Battery Container Model	CX-BG3140120005015-BL	
Number of Packs per Container	12	
Dimension (W x D x H) (mm)	6058 x 2438 x 2896	±10 mm
Nominal Capacity (kWh)	5015.9	0.5P, 100% DOD, 25±2°C
Nominal Voltage (V)	1331.2	
Voltage Range (V)	1164.8 ~ 1497.6	25±2°C, 100% DOD
Maximum Charging / Discharging Power (kW)	2507.9	0.5P, 25±2°C
Operating Temperature (°C)	-30 ~ 55	Charging power ≤0.5P
Operating Humidity (%)	5 ~ 95	
IP Class	IP55	
Cooling Method	Liquid Cooling	
Fire Suppression System	<ul style="list-style-type: none"> Aerosol Fire Extinguishers Sprinkler fire extinguishing system 	
Weight (kg)	43500±500	



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