



# 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 1331.2V, with a voltage range of 1040V to 1497.6V for stable power delivery.
- Maximum charge/discharge power of 2507.5 kW ensures reliable energy during critical times.



### Exceptional Adaptability

- Operating temperature range: 15–45°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 (LiFePO4, or LFP) 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	±0.5mm, 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)	1004.8	25±2°C, 100%DOD
Working Temperature (°C)	15 ~ 45	Charging Power ≤0.5P
Storage Temperature (°C)	-30 ~ 60	30% ~ 50% SOC

# 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
<b>Battery Pack Model</b>	CX-BG314BP0A41R104-BL	
<b>Dimension (L x W x H) (mm)</b>	2192 x 785 x 240	±5mm, including cooling pipe connector
<b>Weight (kg)</b>	685±10	
<b>Nominal Voltage (V)</b>	332.8	
<b>Voltage Range (V)</b>	260 ~ 374.4	25 ± 2 °C, 100%DOD 2.5V~3.65V
<b>Pack Grouping (Parallel and Serial)</b>	1P104S	Cell: IFP72175207-314Ah
<b>Pack Capacity (Ah)</b>	314	0.5P, 100%DOD, 25±2 °C
<b>Pack Capacity (kWh)</b>	104.4	0.5P, 100%DOD, 25±2 °C
<b>Key Components</b>	104 Cells, 2 BMS, and 1 Fuse	
<b>Maximum Charge/ Discharge Power (kW)</b>	52.2	0.5P, 25±2 °C
<b>Working Temperature (°C)</b>	15 ~ 45	Charging power ≤0.5P
<b>Working Humidity (%)</b>	5 ~ 95	

# Battery Rack / Battery Cluster

Battery Rack is mainly composed of multiple Pack and Fuses.



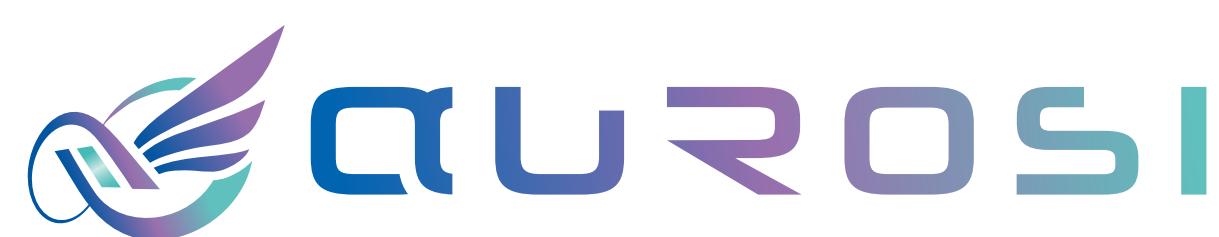
Item	Specification	Note
<b>Battery Rack Appearance</b>		High-voltage Box is at the bottom of the shelf, with 8 battery packs (2 Racks per shelf) on top.
<b>Battery Pack Model</b>	CX-BG314004A41R418-BL	
<b>Number of Packs per Rack</b>	4	Pack: CX-BG314BP0A41R104-BL
<b>Nominal Capacity (Ah)</b>	314	0.5P, 100%DOD, 25±2°C
<b>Nominal Capacity (kWh)</b>	417.9	0.5P, 100%DOD, 25±2°C
<b>Nominal Voltage (V)</b>	1331.2	
<b>Voltage Range (V)</b>	1040 ~ 1497.6	25±2°C, 100%DOD
<b>Maximum Charging / Discharging Power (kW)</b>	208.9	0.5P, 25±2°C
<b>Working Temperature (°C)</b>	15 ~ 45	Charging power ≤0.5P
<b>Working Humidity (%)</b>	5 ~ 95	

# 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
<b>Battery Container Model</b>	CX-BG3140120005015-BL	
<b>Number of Packs per Rack</b>	4	Rack: CX-BG314004A41R418-BL
<b>Dimension (W x D x H) (mm)</b>	6056 x 2438 x 2896	±10mm
<b>Nominal Capacity (Ah)</b>	314	0.5P, 100%DOD, 25±2°C
<b>Nominal Capacity (kWh)</b>	5015.9	0.5P, 100%DOD, 25±2°C
<b>Nominal Voltage (V)</b>	1331.2	
<b>Voltage Range (V)</b>	1040 ~ 1497.6	25±2°C, 100%DOD, 2.5V~3.6V
<b>Maximum Charging / Discharging Power (kW)</b>	2507.5	0.5P, 25±2°C
<b>Working Temperature (°C)</b>	15 ~ 45	Charging power ≤0.5P
<b>Working Humidity (%)</b>	5 ~ 95	
<b>IP Class</b>	IP55 (Battery Room) IP55 (Electrical Room)	
<b>Cooling Method</b>	Liquid Cooling	
<b>Fire Suppression System</b>	<ul style="list-style-type: none"><li>• Aerosol Fire Extinguishers</li><li>• Sprinkler fire extinguishing system</li></ul>	
<b>Weight (kg)</b>	43500±500	



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