

res

- workload

Smart liquid cooling system enables the optimal performance of cell and PCS throughout the lifecycle, expanding the longevity of battery system

Thermal control strategies adapting to various operating conditions reduce auxiliary power consumption and save costs



Highly Integrated

Up to 5MWh capacity, 34.5% increase in energy density

Integrated design of battery pack, PDU, and string PCS, reducing the commissioning time by over 4h

Single-side opening design enables flexible installation to optimize space utilization and save O&M workload



Safe and Reliable

Digital modeling technologies ensure AI analysis throughout cell's lifecycle, achieving early warning of cell safety

Multi-dimensional intelligent sensing system monitors cell, electrical and structural safety status, safeguarding active safety management of system

Multi-level electrical protection and fire suppression design



Efficient and Flexible

Precise battery state algorithm guides battery rack operation for power scheduling, improving power station's RTE by 2%

Intelligent regulation of each battery rack's charge and discharge, enhancing the system's discharge capacity



HYPERBLOCK III

AC VERSION

LIQUID-COOLING ENERGY STORAGE SYSTEM



Renewable Smoothing
- Power generation side



Frequency Regulation
- Grid transmission side



Energy Arbitrage
- User side

HYPERBLOCK III

AC VERSION

TECHNICAL SPECIFICATIONS

Model

HSL3C7211-05015

DC Side

Battery Type	LFP-314Ah
Configuration	12P416S
Rated Energy (kWh)	5015.96
Rated Voltage (V_{dc})	1331.2
Voltage Range (V_{dc})	1123.2~1497.6
Rated Power (kW)	2500

AC Side

Rated AC Power (kVA)	215*12
Rated AC Voltage (V_{ac})	690
Max. THD of Current	$\leq 3\%$ (Rated power)
Termination (LV)	180A*3 Phase* 12
Power Factor	1.0 lagging~1.0 leading
Rated Frequency	50 Hz / 60 Hz
Isolation Method	Transformerless

General Parameters

Dimensions (W*D*H)	6058*2438*2896mm
Weight (kg)	43000
IP Rating	Pack-IP65 / PDU-IP65 / Container-IP55 / PCS-IP66
Operating Humidity	0~95%RH (Non-condensing)
Operating Temperature ($^{\circ}\text{C}$)	-30~55 $^{\circ}\text{C}$
Altitude (m)	≤ 2000 (optional 3000)
Auxiliary Power Supply	400Vac 50Hz/480Vac 60Hz
Communication Interface	Ethernet, RS485
Cooling Method	Smart Liquid Cooling
Fire Suppression System	Temperature sensing, smoke sensing, combustible gas detection, cabin-level aerosols (electric starting), ventilation system, water fire protection
Certifications	UN38.3, IEC61000, IEC62933-5-2, IEC62619, IEC60730, IEC63056, IEC62477, UL9540A, UL9540, UL1973, NFPA855, NFPA68, NFPA69, UN3536