HYPER STRONG

# Product Features

## Low LCOS

Save footprint and on-site 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

## 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

## 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

## 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 | ≤ 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 (℃ ) | -30~55° 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, IEC62477, UL9540A, UL9540, UL1973, NFPA855, NFPA68, NFPA69, UL1741, IEEE1547, EN50549, VDE4110 |