

Product Features



Ultra-high Flexibility

1, 2, 4, 8 blocks can be configured arbitrarily
Supports "side by side, back to back" parallel arrangement
24 tons module, supports maritime, land, and railway transportation
Flexible supplement, low replacement cost



Mega-efficient

RTE \geq 93%@4h, 690Vac
New self-developed SIC PCS with max 99.3% efficiency
Dual-channel liquid-cooled TMS for batteries and PCS, decreasing 20% energy consumption



Long Lifecycle

>10000 cycles @SoH 70%, 0.5P
Full-time balancing technology, improving lifecycle discharge capacity by more than 2%
Intelligent TMS and dynamic temperature control algorithm realize the reliable guarantee of battery life



Grid-friendly ESS

Support Grid-forming, Grid-following, Black-start and islanding protection, etc



Ultimate Safety

Comprehensive safety protection design, to achieve full coverage of all scenarios
AI-based technology enables thermal runaway early warning 7 days in advance
The maximum loss is controlled within 10HC, reducing the loss by 50% compared with 20HC



Minimal Maintenance

Provide AI-based intelligent platform, conduct more than 10 types of O&M work online and offline
The O&M work assistant HyperGenie is constructed to realize intelligent guidance functions, reducing the difficulty and workload on site



HYPERBLOCK M

AC VERSION

HyperBlock M is derived from the brand-new **MagicBlock** platform. We bring customers Mega-efficient, ultimate safety, ultra-flexible, low LCOS, and extremely simple ESS solutions through a new Utility-scale storage product platform and AI.



Renewable Smoothing



Frequency Regulation



Energy Arbitrage

HYPERBLOCK M

AC VERSION

TECHNICAL SPECIFICATIONS

Product Model

HSL3G7U-12800

DC Side

Battery Type	LFP-601Ah
Duration	4h
Configuration	16P416S
Rated Energy	12.8 MWh
Rated Voltage	1331.2 V _{dc}
Operating Voltage Range	1123.2~1497.6 V _{dc}

AC Side

Rated AC Power	400kW*2*4
Rated AC Voltage	690 V _{ac}
Termination (LV)	335A*3 Phase*2*4
Rated Frequency	50Hz/60Hz

System Parameter

Dimension (W*D*H)(mm)	12664*2438*2896
Weight (kg)	≤24,000@Single 10HC Block
Block Quantity (pcs)	4 ¹⁾
IP Rating	Container-IP55, Pack-IP65, PDU-IP55
Operating Humidity	0~95%RH (non-condensing)
Operating Temperature	-30°C~55°C
Altitude	≤2000m (optional 3000m)
Auxiliary Power Supply	400V _{ac} 50Hz / 480V _{ac} 60Hz
Communication Interface	Ethernet, RS485
Cooling Method	Smart liquid cooling

Fire Suppression system

Combustible gas detection, temperature sensor, smoke detection, ventilation system, cabin-level aerosols, deflagration venting panels, water-based fire protection²⁾

Certifications

EN61000, IEC62619, IEC60730, IEC62477, IEC62933, UL9540, UL1973, UL9540, NFPA, EN50549, G99, VDE4110, VDE4120, UL1741, IEEE1547

Notes

1. A quantity of 4 represents the standard configuration. Other available options include 3, 5, 6, and more.
2. Cabin-level aerosols, deflagration venting panels and water-based fire protection are optional.
3. The specifications provided in the table above are for reference only and shall not be binding unless expressly included in a definitive agreement. HyperStrong reserves the right to modify its products or technical data without prior notice.
4. For detailed technical information, as well as project-specific solutions tailored to your needs, please contact HyperStrong.