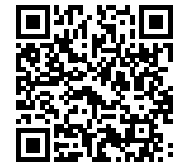


HISbatt-3727L

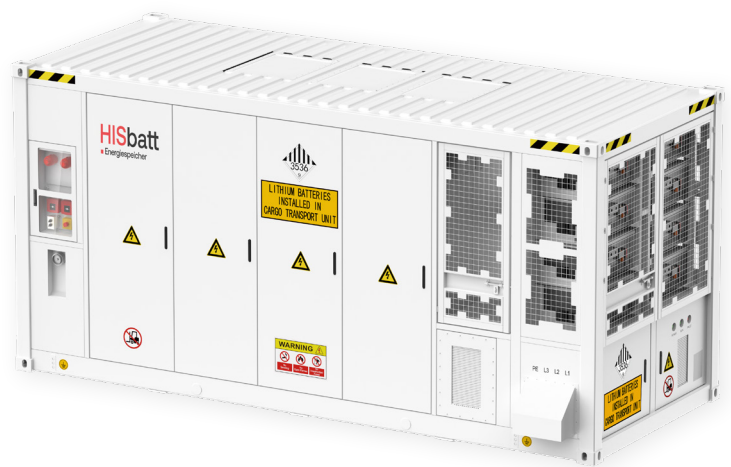
3.72 MWh Liquid-Cooled ESS



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Your Benefits

- +** **Tier-1 LFP Battery Cells**
CATL LFP cells offering a high level of safety
- +** **Multi-Stage BMS**
Robust battery management technology that optimizes performance and service life
- +** **High-Level Safety**
Five thermal safeguards and dual fire suppression systems
- +** **Plug-and-Play**
Pre-engineered and pre-tested systems enable plug-and-play installation on site
- +** **Modular Design**
Minimizes the impact of failures, enabling quick and efficient deployment
- +** **Automotive-Grade Liquid Cooling**
Maintains temperature differences below 3 °C to support reliable operation
- +** **Cloud Monitoring**
Real-time monitoring and remote upgrades
- +** **Low Initial Investment & Fast Delivery**
A standardized, integrated design reduces project costs and accelerates delivery
- +** **Intelligent Coolant Replenishment**
Intelligent leak detection and automatic coolant replenishment support cost-effective operation



The HISbatt-L20 is a compact, containerized battery storage solution offering a maximum rated capacity of 3.72 MWh in a 20-foot high-cube (HC) container.

Designed with safety as its highest priority, it combines outstanding performance with low CAPEX and OPEX.

In combination with HIS-EMS and compatible power conversion systems (PCS), HISbatt-L20 supports a wide range of industrial and utility-scale applications, including solar self-consumption, energy arbitrage, and frequency response services such as aFRR and mFRR.

HISbatt Applications



Emergency & Backup Power



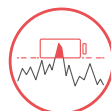
Time-of-Use Optimization



Solar Self-Consumption



Multiple Use Cases



Peak Shaving



EV Charging

Battery Systems

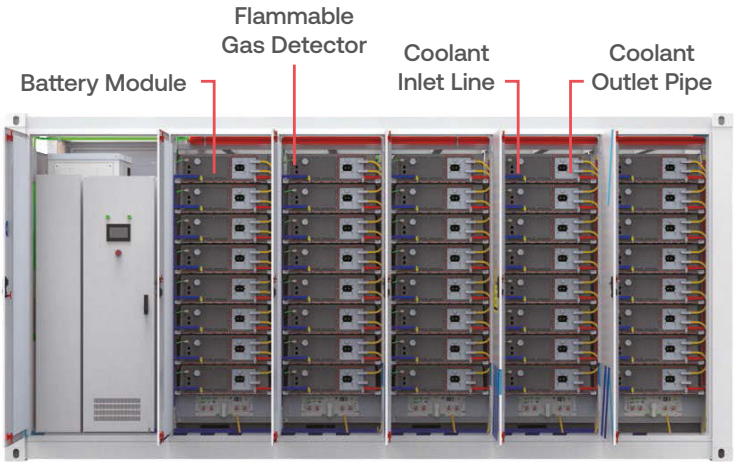
Battery Rack Model	HISbatt-3727-10-08-C05-L
Installed Capacity	3,727 kWh
Battery Module Model	HIS-MOD-46-1P52S-C05-L (8 modules per rack)
Battery Cell Model	CATL 280 Ah, 52 cells per module
C-Rate (Charge/Discharge)	0.5 C/0.5 C
Cycle Life	8,000 cycles at 90 % DoD usable 70 % EoL
Battery Management System	HIS-BMS (three-level safety architecture)

Energy Management System

Main Controller	HISENERGY-Controller
Control Software	myHIS-Flow
Applications	Emergency & Backup Power, Time-of-Use Optimization, Solar Self-Consumption, Multiple Use Cases, Peak Shaving
External Communication Interfaces	Ethernet/Modbus TCP/RS 485

Protective Devices & Certifications

Battery (DC)	Fuse and DC load-break switch
DC overvoltage protection	Surge arrester, type I
Insulation monitoring	Yes
Safety & fire protection	Smoke detectors, CO sensors, H ₂ sensors, temperature sensors, humidity sensors, water leakage detection, independent aerosol fire protection
Cooling principle (Battery)	Liquid cooling
Operating Ambient Temperature	-30 °C to 50 °C
Short-Term Storage Temperature	-30 °C to 60 °C
BESS Ingress Protection Rating	IP55 (Indoor + Outdoor)
Dimensions (W × D × H)	6,058 x 2,438 x 2,896 mm
Weight	36,000 kg
Recommended Storage Conditions (>1 month)	0 °C to 35 °C (30 to 50 % SoC)
Safety Certifications	IEC 62619, UL 9540A (cell), IEC 62477-1:2012
EMC Standards	IEC 61000-6-2, IEC 61000-6-4
Design Life	20 years
Corrosion Protection	C4



German Headquarters
HIS Technology GmbH
Siemensstraße 4
64760 Oberzent

T +49 6068 9314 430
E info@his-technology.com

France
HIS Technologie SARL
45 Impasse Louis
Ferdinand Hérold
34070 Montpellier

T +33 4 67 56 67 54
E info.fr@his-technology.com

Spain
HIS Tecnología S.L.
Avenida de Brasil 17
28020 Madrid

T +34 916 620 493
E info.es@his-technology.com

Turkey
HIS Teknoloji A.Ş.
Yenisehir mah. Osmanli Bulvari No:11,
Aeropark, D:A28 Kat 5, Kurtkoy,
34912 Pendik, Istanbul

T +90 232 422 0931
E info.tr@his-technology.com

Bosnia and Herzegovina
HIS Tehnologija d.o.o.
Prvomajska bb
79260 Sanski Most

T +38 737 307 650
E info.bh@his-technology.com

Poland
HIS Technologia sp. z o.o.
Juliana Tuwima 48/11, 90-021 Łódź
T +48 576 030 900
E info.pl@his-technology.com

Benelux
T +31 641 248 141
E info.nl@his-technology.com