

HISbatt

■ storage system

HISbatt-3727L

3.7 MWh Liquid-Cooled ESS



scan me

Key Features

- +** **Tier-1 LFP Battery Cells**
CATL LFP cells with top-level safety
- +** **Multi-Stage BMS**
robust battery management technology optimizing performance and lifespan
- +** **High-Level Security**
five thermal safeguards and dual fire suppression systems
- +** **Plug-and-Play**
pre-engineered and pre-tested systems allow plug-and-play installation onsite
- +** **Modular Design**
minimizes impact of failures, enabling quick and efficient deployment
- +** **Automotive-Grade Liquid Cooling**
ensures temperature differences below 3 °C for high reliability
- +** **Cloud Monitoring**
real-time monitoring and remote upgrades
- +** **Low Initial Investment & Fast Delivery**
standardized integrated design reduces project costs and accelerates delivery
- +** **Intelligent Liquid Supplementation**
intelligent leak detection and automatic liquid replenishment for cost-effectiveness



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

Designed with safety as the 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, arbitrage, and frequency response services (aFRR, mFRR, etc.).

HISbatt Applications



Emergency & backup power



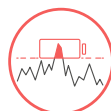
time-of-use optimization



PV self-consumption



multi-use



peak shaving



e-mobility

Battery Systems

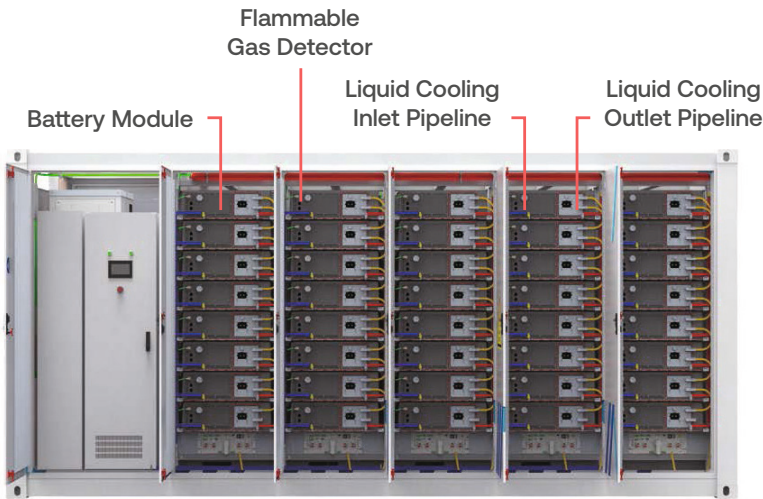
Battery Rack Model	HISbatt-3727-10-08-C05-L
Installed Capacity	3727 kWh
Battery Module Model	HIS-MOD-46-1P52S-C05-L (8 modules per rack)
Battery Cell Model	CATL 280 Ah, 52 cells per module
C-Rate (Charge/Discharge)	0.5 C / 0.5 C
Cycle Life	8,000 cycles @ 90% DoD usable 70% EoL
Battery Management System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

Energy Management System

Main controller	HISENERGY-Controller
Control Software	myHIS-Flow
Applications	peak shaving, PV self-consumption, time-of-use, e-mobility, multi-use etc.
External communication interfaces	Ethernet / Modbus 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, H2 sensors, Smoke detectors, temperature sensors, humidity sensors, water leakage detection, Independent Fire Protection (Aerosol)
Cooling principle (Battery)	Liquid Cooled
Ambient Temperature (operation)	-30 °C to 50 °C
Storage Temperature (short term)	-30 °C to 60 °C
BESS Protection class	IP55 (Indoor + Outdoor)
Dimensions (WxDxH in mm)	6058 x 2438 x 2896
Weight	36,000 kg
Recommended Storage (>1 month)	0 °C to 35 °C (30–50 % SoC)
Safety Certifications	IEC 62619, UL9540A (cell), EC 62477-1:2012
EMC Certificates	IEC 61000-6-2, IEC 61000-6-4
Design Life	20 years
Corrosion Protection	C4



Headquarter Germany HIS Renewables GmbH Siemensstraße 4 64760 Oberzent T +49 606 8931 4430 E sales@his-renewables.com	France HIS Renouvelables SARL 45 Impasse Louis Ferdinand Hérold 34070 Montpellier T +33 4 67 56 67 54 E info.fr@his-renewables.com	Spain HIS Soluciones de Sistemas Solares S.L. Avenida de Brasil 17 28020 Madrid T +34 916 620 493 E info.es@his-renewables.com	Turkey HIS Solar Sistemleri A.S. Halkapınar Mah. 1558. Sok. No: 2 Mahall Bomonti İzmir A1 Kule Ofis Daire: 5111 35170, Konak, İzmir T +90 232 422 0931 E info.tr@his-renewables.com	Poland HIS Renewables Polska sp. z o.o. Juliana Tuwima 48/11, 90-021 Łódź T +48 576 030 900 E info.pl@his-renewables.com BeNeLux T +31 641 248 141 E info.nl@his-renewables.com
-------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------