

# HISbatt

■ storage system

## HISbatt-261L-125K-C05-G

All-in-One Battery Storage System



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### Key Features

- + Complete Solution from a Single Source:**  
BESS, inverter, and EMS are perfectly integrated — one warranty, one point of contact, no interface issues.
- + Safe & Durable:**  
Tier-1 LFP cells, a three-level BMS, and active fire protection technology — certified for maximum operational safety.
- + Smart Control:**  
AI-powered energy management system HISems with remote monitoring and real-time service access — developed and manufactured in Germany.
- + Efficient & High-Performance:**  
261 kWh battery storage with liquid cooling and active cell balancing — consistent performance, even under extreme conditions.
- + Scalable & Future-Proof:**  
Standardized system design — expandable up to 10 MWh to meet growing energy demands.
- + Fast Deployment:**  
Plug-and-play all-in-one system with AC coupling — crane- and forklift-ready for rapid installation and immediate operation.
- + Designed for Outdoor Use:**  
Battery modules rated IP67, enclosure rated IP55 — suitable for both indoor and outdoor installation.



### HISbatt Applications



Multi-Use



Time-of-use optimization



PV self-consumption optimization



Emergency and backup power supply



E-mobility and charging infrastructure



Grid support and peak shaving

### HISbatt Use Cases

Supermarkets

Real estate

Green hydrogen

Industrial applications

E-mobility

Agriculture

[www.his-renewables.com](http://www.his-renewables.com)

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## Batteriesystem

Battery Rack Model	HIS-Batt-261-05-C05-L
Installed Capacity	261 kWh
Battery Module Model	HIS-MOD-52-1P52S-C05-L (5 modules per rack)
Battery Cell Model	LFP 314 Ah, 52 cells per module (260 per rack)
Cycle Life	8,000 cycles @ 100% DoD, 70% EoL
Battery Management System	HIS-BMS (3-level safety)

## Wechselrichter

Model	EPCS125-AM
Rated Power	125 kVA
Maximum Power	137.5 kVA
Max. AC Current	200 A
AC Rated Voltage	400 VAC, 3-phase
Frequency Range	50 Hz (45–65 Hz)
Power Factor	0.99 / -1 ~ 1
Overload Capacity	110% long-term
Max. Efficiency	98.5%
DC Voltage Range	702 – 936 VDC
Total Harmonic Distortion (THD)	< 3% at rated power
Mounting	Integrated into the battery cabinet

## Energy Management System

Main controller	HISenergy-Controller
Control Software	HISenergyflow
Applications	peak shaving, PV self-consumption, direct sellers, dynamic rates, time-of-use, e-mobility, multi-use
External communication interfaces	Ethernet / Modbus TCP / RS-485

## Protective Devices & Certifications

DC overload protection	Fuses and circuit breakers
DC overvoltage protection	Type I
Insulation and ground fault monitoring	Yes
Fire and gas monitoring	Smoke detectors, CO, H <sub>2</sub> , temperature, and humidity sensors
Fire protection	Integrated, autonomous aerosol-based fire protection (FK5112)
Cooling principle	Inverter: Temperature-controlled fan; Battery: Liquid-cooled
Operating temperature	-30 °C to +55 °C
Storage temperature (short-term)	-30 °C to +60 °C
Recommended long-term storage	0 °C to 35 °C at 30–50 % SoC
Protection class	IP55 (Indoor & Outdoor)
Dimensions (W × D × H)	1,080 x 1,450 x 2,235 mm
Weight	2,600 kg
Battery safety	IEC 62619, UL9540A (cells), IEC 62477-1:2012
EMC Certificates	IEC 61000-6-2, IEC 61000-6-4
Design Life	20 years under rated conditions

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