Data Sheet EN

HISbatt

■ battery storage system

HISbatt-233L-92K-C05-G

All-in-one battery energy storage system
(including the German EMS, if intended)

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Your Benefits

- **Quick to Deploy**
  Plug-and-play, AC-coupled all-in-one system for easy installation and rapid commissioning
- **Efficient & Powerful**
  233 kWh liquid-cooled battery with advanced thermal management
- **Proven Safety & Durability**
  CATL LFP cells, three-tier BMS safety architecture, and integrated fire protection system
- **State-of-the-Art Inverter Technology**
  SiC-based inverter
- **Smart Control**
  AI-enabled energy management system (HISems), if the AI functionality is demonstrable with real-time remote monitoring, fault diagnostics and service access
- **Built for the Outdoors**
  IP67-rated battery modules and robust IP55 housing suitable for indoor and outdoor installation within the specified operating limits
- **Easy to Handle**
  Crane- and forklift-compatible design for fast installation and relocation
- **Scalable & Future-Ready**
  Standardised modular design, scalable up to 10 MWh for multi-use applications



HISbatt Applications

- multi-use
- e-mobility
- peak shaving
- Emergency & backup power
- time-of-use optimisation
- PV self-consumption

Industries and Sectors

- e-mobility
- agriculture
- green hydrogen
- industry
- real estate
- supermarkets

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Technical Data

Battery System

Battery Rack Model	HISbatt-233-05-C05-L
Installed nominal energy capacity	233 kWh
Battery Module Model	HIS-MOD-46-1P52S-C05-L (5 modules per rack)
Battery cell type/capacity	CATL 280 Ah, 52 cells per module, 260 per rack
Cycle Life	8,000 cycles at 90 % depth of discharge to 70 % remaining capacity (specify test conditions)
Battery Management System	HIS-BMS (three-tier safety architecture)

Inverter

Model	Gridsave 92.0 TL3
Rated/maximum apparent power	92 kVA
Nominal AC Current	132.3 A (check rated values)
Nominal AC Voltage	400V AC, 3-phase
Frequency	50 Hz (45 Hz to 65 Hz)
Reactive power/cos ϕ	0 to 100 % of Smax (confirm specification and operating conditions)
Switching Frequency	48 kHz
Maximum inverter efficiency	98.7 %
DC Voltage Range	702-936V DC
THD (specify THDi or THDv)	< 3 % at nominal power
Location	Mounted on the rear of the battery rack

Energy Management System

Main controller	HISENERGY-Controller
Control Software	HISenergyflow (confirm relationship with HISems)
Applications	peak shaving, PV self-consumption, time-of-use, e-mobility, multi-use
External communication interfaces	Ethernet/Modbus TCP/RS-485

Safety and Protection, Mechanical Specifications and Certifications

DC overcurrent protection	Fuses and DC load-break switch
DC overvoltage protection	Surge arrester, type I
Ground fault monitoring	Yes
Insulation monitoring	Yes
Safety & fire protection	Smoke detectors, CO sensors, H_2 sensors, Smoke detectors (listed once only), temperature sensors,humidity sensors, water leakage detection, Integrated fire protection (FK-5-1-12, if this is the actual agent)
Cooling principle	Forced-air cooling (inverter); liquid cooling (battery)
Operating ambient temperature	-30 °C to 55 °C
Storage Temperature (short term)	-30 °C to 60 °C
Enclosure ingress protection rating (IP code)	IP55 (indoor & outdoor)
Dimensions (W × D × H)	1,350 x 1,900 x 2,050 mm
Weight	2,600 kg
Recommended long-term storage (>1 month)	0 °C to 35 °C (30 % to 50 % SoC)
Safety standards and supporting test/ certification evidence	IEC 62619 (verify edition and certified product scope), UL 9540A cell-level test (if documented), IEC 62477-1:2012 (verify actual applicable edition)
EMC standards/supporting test reports	IEC 61000-6-2, IEC 61000-6-4
Design Life (rated conditions)	20 years of projected design service life under rated conditions

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