

HISbatt

■ storage system

HISbatt-233L-92K-C05-G

All-in-One Battery solution



scan me

Key Features

- Quick to Deploy**
plug-and-play all-in-one system with AC coupling
- Efficient & Powerful**
233 kWh liquid-cooled battery with advanced thermal management
- Proven Safety & Durability**
CATL LFP cells, 3-level BMS, and active fire suppression
- State-of-the-Art Inverter Technology**
92 kVA SiC-based inverter with reactive power capability
- Smart Control**
AI-powered energy management system (HISems) with remote monitoring and service access
- Built for the Outdoors**
IP67 battery modules and robust IP55 housing for any location
- Easy to Handle**
crane- and forklift-compatible design for fast installation and relocation
- Scalable & Future-Ready**
standardized design, easily expandable to 10 MWh



HISbatt Applications



multi-use



e-mobility



peak shaving



Emergency &
backup power



time-of-use
optimization



PV
self-consumption

HISbatt Use Cases

e-mobility

agriculture

green hydrogen

industry

real estate

supermarkets

www.his-renewables.com

HIS

Battery Systems

Battery Rack Model	HIS-Batt-233-05-C05-L
Installed Capacity	233 kWh
Battery Module Model	HIS-MOD-46-1P52S-C05-L (5 modules per rack)
Battery Cell Model	CATL 280 Ah, 52 cells per module, 260 per rack
Cycle Life	8,000 cycles @ 90% DoD usable 70% EoL
Battery Management System	HIS-BMS (3-level safety)

Inverter

Model	Gridsave 92.0 TL3
Nominal / Max Apparent Power	92 kVA
Nominal AC Current	132.3 A
Nominal AC Voltage	400 VAC, 3-phase
Frequency	50 Hz (45 Hz - 65 Hz)
Reactive power / cos ϕ	0–100 % Smax; cos ϕ : 0.30 inductive – 0.30 capacitive
Switching Frequency	48 kHz
Efficiency	98.7 %
DC Voltage Range	702–936 VDC
THD	< 3 % at nominal power
Location	mounted on the back of battery rack

Energy Management System

Main controller	HISENERGY-Controller
Control Software	HISenergyflow
Applications	peak shaving, PV self-consumption, time-of-use, e-mobility, multi-use
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
Ground fault monitoring	Yes
Insulation monitoring	Yes
Safety & fire protection	Smoke detectors, CO sensors, H2 sensors, Smoke detectors, temperature sensors, humidity sensors, water leakage detection, Independent Fire Protection (FK5112)
Cooling principle	forced air (inverter), liquid (battery)
Ambient Temperature (operation)	-30 °C to 55 °C
Storage Temperature (short term)	-30 °C to 60 °C
Protection Class	IP55 (indoor & outdoor)
Dimensions (WxDxH in mm)	1350 x 1900 x 2050
Weight	2,600 kg
Recommended Storage (>1 month)	0 °C to 35 °C (30 % to 50 % SoC)
Safety Certifications	IEC 62619, UL9540A (cell), EC 62477-1:2012
EMC Certificates	IEC 61000-6-2, IEC 61000-6-4
Design Life (rated conditions)	20 years

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