

HISbatt

■ storage system

HISENERGY

■ empowering tomorrow smartly

HISBATT-126A

All-in-one battery solution
(HISBATT-126A-92K-C10-G)



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Your Benefits at a Glance

- + **Quick to deploy:**
Plug-and-play all-in-one system with AC coupling
- + **Efficient & powerful:**
126 kWh battery with advanced thermal management and up to 1 C operation
- + **State-of-the-art inverter technology:**
92 kVA SiC-based inverter with reactive power capability
- + **Reliable & safe:**
Tier-1 LFP cells, 3-level BMS, and active fire suppression system
- + **Smart control:**
AI-powered energy management system (HISems) with remote monitoring & service access
- + **Weatherproof & robust:**
IP55-rated enclosure – ideal for any environment
- + **Easy to handle:**
Crane- and Forklift-compatible design for fast installation and relocation
- + **Scalable & future-ready:**
Standardized system – easily expandable to meet growing energy needs



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

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HIS

Battery Systems

Battery rack model	HIS-BATT-126-11-C10-A
Battery capacity (Installed)	126.5 kWh
Battery module model	HIS-MOD-11-1P24S-C10-A
Battery modules per rack	11
Battery cell model	150 Ah
Battery cells per module	24
Battery cells per rack	264
Cycles (@ 90 % DoD usable 70 % EoL)	4,500
Battery Management System	HIS-BMS (3 Level Safety)

Inverter

Battery inverter model	KACO Gridsave 92 TL3-S
Nominal apparent power	92 kVA
Maximum apparent power	92 kVA
Nominal AC current (I)	132 A
Nominal AC voltage	400 VAC, 3-phase
AC power frequency (range)	50 Hz (45 Hz - 65 Hz)
Reactive power / cos ϕ	0 - 100 % Smax / 0.30 ind. - 0.30 cap.
Inverter efficiency (Max)	98.7 %
DC voltage range	702 VDC to 936 VDC
Maximum total harmonic distortion	< 3 % at nominal power
Inverter location	Mounted on backside of battery rack

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 TCP

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, temperature sensors, humidity sensors, Independent Fire Protection (Aerosol), Fire Coupling
Cooling principle (Inverter)	Forced Air Cooled (Fans)
Cooling principle (Battery)	Forced Air Cooled (HVAC)
Battery operation temperature (Ambient)	-20 °C to 45 °C
Battery storage temperature	-30 °C to 60 °C
BESS Protection class	IP55 (Indoor + Outdoor)
Dimensions (mm)	1360 x 1065 x 2150 (mm)
BESS weight	2,200 kg
Battery storage temperature range (> 1 month)	0 °C to 35 °C (30 % to 50 % SoC)
Safety Certifications	IEC 62619, EC 62477-1:2012,
EMC Certificates	IEC 61000-6-2, IEC 61000-6-20
BESS 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 Hérol
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