H·I·S
Connecting Energy

HISbatt
storage system

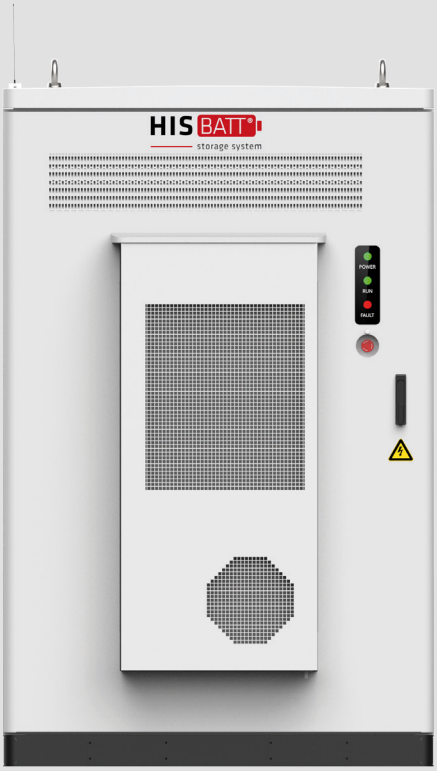
HISENERGY
empowering tomorrow smartly

HISBATT-126A
ALL-IN-ONE BATTERY SOLUTION
(HISBATT-126A-92K-C10-G)

DATA SHEET 2025

Your Benefits at a Glance

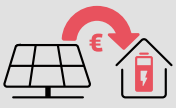
+ **Quick to deploy:**
  Plug-and-play all-in-one system with AC coupling
+ **Efficient & powerful:**
  126 kWh battery with advanced thermal management and up to 1 C operation
+ **State-of-the-art inverter technology:**
  92 kVA SiC-based inverter with reactive power capability
+ **Reliable & safe:**
  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



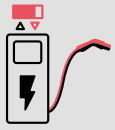
HISbatt Use Cases

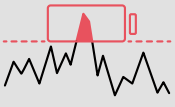
E-Mobility	Agriculture
Industry	Supermarkets
Real Estate	Green Hydrogen

HISbatt Applications


PV Self Consumption Optimization


Multi-Use


E-Mobility


Peak Shaving


Emergency / Backup Power


Time-of-Use

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storage system

TECHNICAL DATA

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 phi	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

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