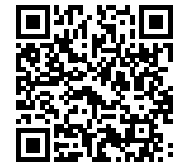
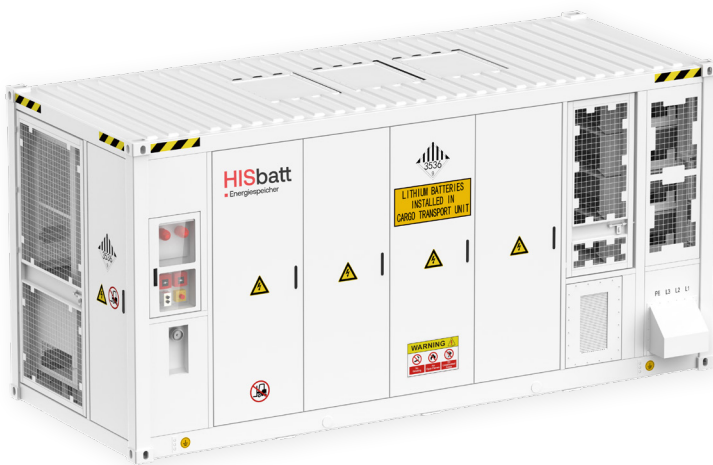


HISbatt Powerpack 800V

All-in-one battery storage system for 800V energy projects



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One system. Less complexity. Faster time to value.

HISbatt Powerpack 800V AIO is a fully integrated, containerized battery storage system designed for direct AC connection to 800V infrastructure in modern energy projects.

The system was specifically designed to reduce planning and integration costs, shorten project timelines, and unlock revenue potential sooner – from installation through to active participation in energy markets.

By eliminating additional transformation stages, the HISbatt Powerpack enables efficient, robust, and cost-effective integration into new and existing PV and hybrid systems.

Your Benefits



Direct 800V Integration

Seamless AC connection to existing 800V systems significantly reduces infrastructure and engineering costs



All-in-one plug-and-play system

The battery, inverter, and energy management system (EMS) fully preconfigured and integrated into a 20-foot container, reducing interfaces and ensuring reliable project execution



Reduced system costs and losses

A smaller number of components lowers BOS costs, minimizes energy losses, and simplifies maintenance and operation



Faster project implementation

The factory-tested complete system reduces installation and commissioning time



Immediate revenue generation

Direct access to energy arbitrage and grid-services markets without time-consuming grid modifications



Powerful and scalable

Up to 3,344 kWh of storage capacity and 1,600 kW of power for demanding utility-scale applications



Intelligent energy management

The integrated HIS-EMS enables dynamic system operation, remote monitoring, and automatic optimization of storage utilization



Modular multi-inverter system for maximum availability

Four to eight independent inverter and battery units ensure high operational reliability. If one unit fails, total output is reduced only proportionally (e.g., by 1/8), while the remaining system continues to operate normally, significantly increasing overall system availability

HISbatt Applications



Hybrid solar parks (PV + storage)



Optimization of existing PV infrastructure



Grid services (e.g., aFRR)



Energy arbitrage (day-ahead & intraday)



Load management & system stabilization

Battery System	
Battery rack model	HISbatt-3344-08-08-C05-L
Installed capacity	1,672 to 3,344 kWh (modularly configurable)
Battery modules per container	32 to 64 (depending on configuration)
Battery module model	HIS-MOD-52-1P52S-C05-L
Battery cell model	CALB 314 Ah
Battery cells per module	52
Battery voltage range	1,040 to 1,498V
C-rate (charging/discharging)	0.5 C/0.5 C
Cycle life	8,000 cycles at 90 % usable DoD 70 % EoL
Battery management system	HIS-BMS (three-level safety architecture)
Cooling principle (battery)	Liquid cooling

Inverter	
Battery inverter model	CPS ECB200KTL
Number of inverters	4 to 8 (modular)
Rated AC output power	800 to 1,600 kVA
Rated AC voltage	800V AC, 3-phase
Max. AC output current at 800V AC	580 to 1,160 A
Grid frequency	50 Hz (± 5 Hz)
Power factor	-1 to +1
Maximum total harmonic distortion	< 3 % at rated power
Max. efficiency	98 %
DC voltage range during operation	950 to 1,500V DC

Energy Management System	
Main controller	HISenergy Controller
Control software	HISenergyflow
Applications	Direct electricity marketing, arbitrage, grid services (e.g., aFRR), peak shaving, self-consumption optimization, multi-use
External communication interfaces	Ethernet/Modbus RS 485

Safety & Protection	
Battery (DC)	DC fuse and DC load-break switch
DC overvoltage protection	Type II
Ground fault monitoring	Yes
Insulation monitoring	Yes
Fire protection system	Independent aerosol fire suppression system
Sensors	Smoke, CO, H ₂ , temperature, humidity, and water-leakage detection

Operating Conditions	
Ambient operating temperature)	-30 °C to 55 °C
Storage temperature	-30 °C to 60 °C
Recommended storage conditions (> 1 month)	0 °C to 35 °C (30 to 50 % SoC)
Safety certifications	IEC 62619, UL 9540A (cell), IEC 62477-1:2012
EMC standards	IEC 61000-6-2, IEC 61000-6-4
Design life (rated conditions)	20 years