HBD-125-260

A Series

Design Standards

HBDⓐ Series is a new range of secure, integrated battery energy storage systems. This modular solution includes batteries, PCS, LCAC, FSS, and EMS, with optional components such as STS, PV inverters, PV modules, ATS, and auxiliary units to meet diverse application needs. Support emergency backup, peak shaving, Arbitrage, Grid Service, Self -consumption

Benefits

- High Energy Density: Top-tier 314Ah LFP cells
- Comprehensive Safety Protection: Multi-layer protection
- High Compatibility: Compatible with multiple electrical solutions
- Intelligent Operation: Smart EMS

Warranty

3 years after export from the factory or the Energy Throughput achieve 4590kWh per kWh which comes first.



HBD-125-260

General Information		HBD-125-260
Rated Output Power@25℃		125kVA
Rated Power Factor		0.8 lagging
Rated Output Voltage		380V@50Hz/60Hz, 3ph. (400V & 415V available)
Rated Battery Storage Capacity		261.25kWh
Output	Terminals	Copper Busbar
	Sockets	N/A
Protection Class		IP55
Loading Dimension (W*D*H)		940*1600*2460mm
Net. Weight		2700kg
Loading Capacity	20'GP	N/A
	40'HC	9 units
Discharge Temperature Range		-20~50℃ (> 45℃ derating)
Max Altitude		3000m (> 2000m derating)

ISO 9001:2015 ilac-MRA CE

aksa BESS



Battery	HBD-125-260
Cell Type	LFP ($LiFePO_4$)
Pack Capacity	52.25kWh
Pack Rated Voltage	166.4Vdc
Cyclic Life	8000 (0.5C@90%DOD)
Battery Voltage of Rack	832Vdc
Connection of Rack	5S1P
PCS	
Max. Current (AC)	200A
Max. Output Power	137.5kVA
Rated Output Power	125kW
AC Input Voltage Range	380~415Vac
Rated Frequency Range	50/60Hz (±2.5Hz)
PF	1 lagging~1 leading
AC Connection	3W+N+PE
Max. Efficiency	98.5%
Transformer	N/A
Communication	CAN/RS485
Grid-tied Certificates	EN50549, NRS 097, C10/11, VDE4105, G99, AS4777, IEC61727&62116, CEI 0-21, Austria TOR EZA Type A&B, 217001/2, NTS631, The Saudi Arabian
Safety & EMC Certificates	IEC61000, IEC62477
Cooling System	
Cooling Type	LCAC
Fire Protection	
Type	Aerosol (CE)
EMS	
Display and Monitor	Local screen
Function	Energy management and coordinated control of energy storage system



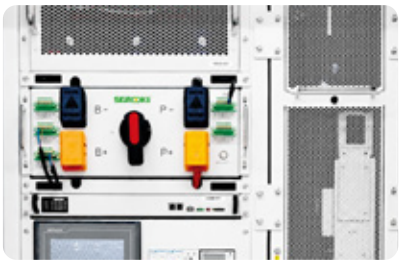
HBD-125-260



1 $LiFePO_4$ BATTERY
Long Life Design Up to 8000 cycles
High Quality Based on Specification
Consistency of CELLS~!



2 C-4 LEVEL ANTI-CORROSION SUITABLE WITH HEAVY DUTY



3 Fits the practical application & guaranteed by high-quality manufacturing technology.



4 INTELLIGENT PCS with EMS
EASY OPERATION ON ONE SCREEN

aksa BESS

HBD



PV
Renewable Energy



CLOUD
Remote Monitoring & Control



INVERTER
Remote Monitoring & Control



HBD-125-260



GENSET
Power Consumption



STS



GRID
Backup Power



ATS



LOAD
Remote Monitoring & Control

ALL-IN-ONE SOLUTION

BATTERY STORAGE
Reliable & Safe

EMS
Smart Energy Management

PCS
Bidirectional Power Conversion

REMOTE CONTROL
Monitor Anytime, Anywhere