HBD-210-410

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 external 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

Kindly check "WARRANTY MANUAL"



General Information		HBD-210-410
Rated Output Power@25℃		210kW
Rated Power Factor		0.99 lagging~0.99 leading
Rated Output Voltage		800V@50Hz/60Hz, 3ph. (690V available)
Rated Battery Storage Capacity		418kWh
Efficiency		≥89%
Protection Class		IP55
Loading Dimension (W*D*H)		1500*1350*2400mm
Net. Weight		3800kg
Loading Capacity	20'GP	N/A
	40'HC	6 units
Discharge Temperature Range		-25~55℃ (> 45℃ derating)
Humidity		5~95%RH, non-condensing
Max Altitude		3000m(> 2000m derating)

ISO 9001:2015 ilac-MRA CE

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Battery	HBD-210-410
Cell Type	LFP ($LiFePO_4$)/314Ah
Pack Capacity	52.25kWh
Pack Rated Voltage	166.4Vdc
Cyclic Life	8000 (0.5C@90%DOD)
Battery Voltage of Rack	1164.8~1497.6Vdc
Connection of Rack	8S1P
PCS	
Max. Current (AC)	167.2A
Max. Output Power	231kW
Rated Output Power	210kW
AC Input Voltage Range	800Vac (-15%~+10%)
Rated Frequency Range	50/60Hz (±2.5Hz)
PF	-0.99 lagging~0.99 leading
AC Connection	3P+PE
Max. Efficiency	98%
Transformer	N/A
Communication	Ethernet/CAN/RS485
Grid-tied Certificates	IEC 62477, IEC 62109, EN 50549-1/2/10, VDE-AR-N 4110, VDE-AR-N 4120,
Safety & EMC Certificates	IEC61850, IEC 61000,
Cooling System	
Cooling Type	LCAC
Fire Protection	
Type	Aerosol (CE)
EMS	
Function	Energy management and coordinated control of energy storage system



HBD-210-410



1 LiFePO$_4$ BATTERY:
Long Life Design Up to 8000 cycles
High Quality Based on Specification
Consistency of CELLS~!



2 INTEGRATED with PCS EMS BMS
EASY OPERATION ON ONE SCREEN



3 C-4 LEVEL ANTI-CORROSION SUITABLE WITH HEAVY DUTY
2 m² Footprint Only, Easy transportation & fast installation
MODULAR DESIGN, simplified parallel expansion.
Fits the practical application & guaranteed by high-quality manufacturing technology.

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HBD



PV
Renewable Energy

CLOUD
Remote Monitoring & Control



INVERTER
Remote Monitoring & Control



STS



HBD-210-410



GENSET
Power Consumption



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