HBD-100-200

R Series

Design Standards

HBD® is a new range of secure integrated Battery Energy storage system. This mobile and modular solution includes batteries, PCS and control system; HVAC, fire protection and auxiliary components for option. The R series can be connected to external PV power station, AC generator and Grid power.
HBD® is mainly developed for no emission and low noise, Reduce the dependence on grid, Improve power supply quality and Ensure the power consumption of emergency load.

Benefits

- Integrated installation, convenient storage and transportation;
- High return on investment and short payback period;
- Simple operation and easy maintenance;
- Power and Capacity can be expanded, meet different user needs;

Warranty

Please contact the sales and check the warranty manual



General Information		HBD-100-200
Rated Output Power@25℃		100kVA
Rated Power Factor		0.8 lagging
Rated Output Voltage		380V@50/60Hz, 3ph. (400V & 415V available)
Rated Battery Storage Capacity		225.08kWh
Output	Terminals	Copper Busbar
	Sockets	MAX. 5 Sockets available
Protection Class		IP54
Loading Dimension (W*D*H)		2250*1900*2010mm
Net. Weight		3850kg
Loading Capacity	20'GP	3 units
	40'HC	6 units
Discharge Temperature Range		-20~50℃ (> 45℃ derating)
Max Altitude		3000m (> 2000m derating)

ISO 9001:2015 ilac-MRA CE



Battery	HBD-100-200
Cell Type	LFP ($LiFePO_4$)
Pack Capacity	16.077kWh
Pack Rated Voltage	51.2VDC
Cyclic Life	6000 Times (0.5C@90%DOD)
Battery Voltage of Rack	358.4VDC
Connection of Rack	14S1P
PCS	
Max. Current (AC)	159A
Max. Output Power	110kW
Rated Output Power	100kW
AC Input Voltage Range	340~460Vac
Rated Frequency Range	50/60Hz (±2.5Hz)
PF	1 lagging~1 leading
AC Connection	3W+N+PE
Max. Efficiency	97.3%
Transformer	N/A
Communication	CAN/RS485/Ethernet/WIFI
Grid-tied Certificates	EN50549, AS4777.2, VDE4105, G99, IEEE1547, NB/T 32004
Safety & EMC Certificates	IEC61000, IEC62109, NB/T 32004, UL1741
Cooling System	
Cooling Type	HVAC for Air cooling
Fire Protection	
Type	Aerosol (CE)
EMS	
Display and Monitor	Local screen
Function	Energy management and coordinated control of energy storage system





1 $LiFePO_4$ BATTERY
Long Life Design Up to 6000 cycles
High Quality Based on
Specification Consistency of CELLS~!



2 INTELLIGENT PCS with EMS
EASY OPERATION ON ONE SCREEN



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



4 BUILT-IN OUTLETS FOR OPTION
EASY CONNECTED



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

aksa BESS

HBD-R



INVERTER
Remote Monitoring & Control



PV
Renewable Energy



CLOUD
Remote Monitoring & Control



GRID
Backup Power



HBD-100-200



LOAD
Remote Monitoring & Control



GENSET
Power Consumption

ALL-IN-ONE SOLUTION

BATTERY STORAGE
Reliable & Safe

EMS
Smart Energy Management

PCS
Bidirectional Power Conversion

REMOTE CONTROL
Monitor Anytime, Anywhere