HBD-30-60
HBD-50-100

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



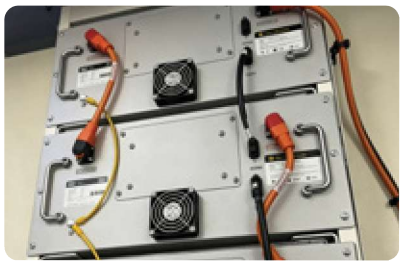
General Information		HBD-30-60	HBD-50-100
Rated Output Power@25℃		30kVA	50kVA
Rated Power Factor		0.8 lagging	
Rated Output Voltage		380V@50Hz/60Hz, 3ph. (400V & 415V available)	
Rated Battery Storage Capacity		61.44kWh	112.5kWh
Output	Terminals	Copper Busbar	
	Sockets	MAX. 4 Sockets available	
Protection Class		IP54	
Loading Dimension (W*D*H)		1940*1145*1880mm	2200*1268*1922mm
Net. Weight		1860kg	2450kg
Loading Capacity	20'GP	6 units	4 units
	40'HC	12 units	9 units
Discharge Temperature Range		-20~50℃ (> 45℃ derating)	
Max Altitude		3000m (> 2000m derating)	

ISO 9001:2015 ilac-MRA CE



Battery	HBD-30-60	HBD-50-100
Cell Type	LFP ($LiFePO_4$)	
Pack Capacity	5.12kWh	16.077kWh
Pack Rated Voltage	51.2VDC	51.2VDC
Cyclic Life	6000 Times (0.5C@90%DOD)	
Battery Voltage of Rack	614.4VDC	358.4VDC
Connection of Rack	12S1P	7S1P
PCS		
Max. Current (AC)	47.6A	79.4A
Max. Output Power	33kW	55kW
Rated Output Power	30kW	50kW
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.

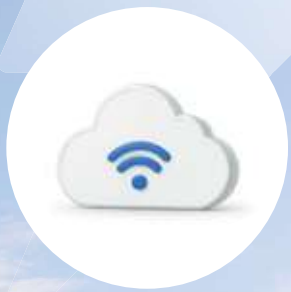
aksa BESS



INVERTER
Remote Monitoring & Control



PV
Renewable Energy



CLOUD
Remote Monitoring & Control

HBD-R

HBD-30-60



GRID
Backup Power



HBD-50-100



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