HBD-610-610

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; LCAC, fire protection and auxiliary components are also standard. 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-610-610	
Rated Output Power@25℃		610kVA	337kVA
Rated Power Factor		0.8 lagging (Changeable)	
Rated Output Voltage		380V@50/60Hz, 3ph. 4W (400V & 415V available)	208V@50/60Hz, 3ph. 4W (208-240V available)
Rated Battery Storage Capacity		610kWh	
Output	Terminals	Copper Busbar	
	Sockets	MAX. 7 Sockets available	
Protection Class		IP54	
Loading Dimension (W*D*H)		4800*2250*2250mm	
Net. Weight		~12000kg	
Loading Capacity	20'GP	1 units	
	40'HC	2 units	
Discharge Temperature Range		-20~50℃ (> 45℃ derating)	
Max Altitude		3000m (> 2000m derating)	

ISO 9001:2015 ilac-MRA CE

aksa BESS



Battery	HBD-610-610
Cell Type	LFP ($LiFePO_4$)
Pack Capacity	40.7kWh
Pack Rated Voltage	153.6VDC
Cyclic Life	6000 Times (1C@80%DOD)
Battery Voltage of Rack	768VDC
Connection of Rack	5S3P
PCS	
Max. Current (AC)	926A
Max. Output Power	610kW
Rated Output Power	610kW
PF	1 lagging~1 leading
AC Connection	3W+N+PE
Max. Efficiency	98.9%
Transformer	N/A
Communication	CAN/RS485/Ethernet
Grid-tied Certificates	EN50549, VDE4105, G99
Safety & EMC Certificates	IEC61000, IEC62477
Auxiliary Inverter Device	
AC Charger (OPTION)	0kW as standard (Min. 40kW-Max. 600kW Changeable)
Solar Charger (OPTION)	0kW as standard (Min. 60kW-Max. 600kW Changeable)
PCS (OPTION)	610kW as standard (Min. 135kW-Max. 610kW Changeable)
Cooling System	
Battery Cabin	LCAC
PCS Cabin	Fans
Protection Device	
Fire Suppressant	Aerosol (CE) first, water inlet valve reserved
Sensor	Smoke, temperature, harmful gas, water immersion, door's open
EMS	
Display and Monitor	Local screen
Function	Energy management and coordinated control of energy storage system



HBD-610-610



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 BUILT-IN OUTLETS FOR OPTION
EASY CONNECTED



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



5 C-5 LEVEL ANTI-CORROSION
SUITABLE WITH HEAVY DUTY

aksa BESS

HBD-R



PV
Renewable Energy



PV
(OPTION)



CLOUD
Remote Monitoring
& Control



INVERTER
Remote Monitoring
& Control



HBD-610-610



LOAD
Remote Monitoring
& Control



GRID
Backup Power



GENSET
Power Consumption

ALL-IN-ONE SOLUTION

BATTERY STORAGE
Reliable & Safe

EMS
Smart Energy
Management

PCS
Bidirectional Power
Conversion

REMOTE CONTROL
Monitor Anytime,
Anywhere



HBD[a] is a secure, mobile, and modular integrated battery energy storage system equipped with standard batteries, PCS, control systems, LCAC, fire protection, and auxiliary components. Seamlessly integrating with external PV power stations, AC generators, and the grid, the R series is engineered for zero emissions and low noise. It is designed to reduce grid reliance, improve power supply quality, and guarantee uninterrupted energy for critical emergency loads.