HBD-250-400

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-250-400
Rated Output Power@25℃		250kVA
Rated Power Factor		0.8 lagging
Rated Output Voltage		380V@50/60Hz, 3ph. (400V & 415V available)
Rated Battery Storage Capacity		450.2kWh
Output	Terminals	Copper Busbar
	Sockets	MAX. 7 Sockets available
Protection Class		IP54
Loading Dimension (W*D*H)		2950*2250*2250mm
Net. Weight		7600kg
Loading Capacity	20'GP	2 units
	40'HC	4 units
Discharge Temperature Range		-20~50℃ (> 45℃ derating)
Max Altitude		3000m (> 2000m derating)

ISO 9001:2015 ilac-MRA CE

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Battery	HBD-250-400
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	716.8VDC
Connection of Rack	14S2P
PCS	
Max. Current (AC)	364A
Max. Output Power	300 kW (1 minute)
Rated Output Power	250kW
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	99%
Transformer	N/A
Communication	CAN/RS485/Ethernet
Grid-tied Certificates	EN50549, VDE4105, G99
Safety & EMC Certificates	IEC61000, IEC62477
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



HBD-250-400



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.

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INVERTER
Remote Monitoring & Control



PV
Renewable Energy



CLOUD
Remote Monitoring & Control

HBD-R



GRID
Backup Power



HBD-250-400



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