HBD-10-30
HBD-12-30

E Series

Design Standards

HBD®-E is a new range of secure integrated Battery Energy storage system. It redefines convenient energy storage with its fully integrated, all-in-one design. This secure system combines LFP batteries, a hybrid inverter, and intelligent controls in a modular solution. It connects directly to PV arrays, the grid, or generators, enabling emission-free operation and reduced grid reliance. Developed to ensure power quality and provide emergency backup, the E-Series is an ideal, scalable solution for reliable and independent energy management.

HBC® is a new range of Residential Battery Energy Storage System, with participation of PV, hybrid inverter, battery, loads and grid system for energy management.

Benefits

- All-in-One Energy: Enabling direct connection to Grid、PV arrays and diesel generators for versatile power input.
- Plug-and-Play: Pre-integrated components for simple, fast installation. Significantly reduces installation time and labor costs.
- Smart Remote Control: Monitor and manage via APP, 4G, or WiFi.
- Scalable & Flexible: Modular design supports parallel expansion.
- 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;
- Accept customer customization, suitable for various scenarios;

Warranty

Kindly check "WARRANTY MANUAL"



General Information		HBD-10-30	HBD-12-30
Model		HBD-10	HBD-12
Rated Output Power@25°C		10 kVA	12kW
Rated Power Factor		0.8 lagging	
Rated Output Voltage		380V@50/60Hz, 3ph. (400V & 415V available)	380 ~ 415V@50/60Hz, 3ph.
Battery Storage Capacity		30.72kWh	30kWh
PV Input	Max Power	18kWp	
	Max. input Current per MPPT	20A	
	Number of MPPT* Strings per MPPT	3*1	
Protection Class		IP54	
Loading Dimension (W*D*H)		1365*1081*1820	
Ingress Rating			IP55
Net. Weight		700kg	
Loading Capacity	20'GP	8 units	
	40'HC	16 units	
Discharge Temperature Range		-20~50°C (> 45°C derating)	-20 ~ +50 °C (> +45°C derating)
Max Altitude		3000m (> 2000m derating)	

ISO 9001:2015 ilac-MRA CE



Battery	HBD-12-30
Cell Type	LFP ($LiFePO_4$)
Pack Model	MF51100
Pack Capacity	5.12kWh
Pack Rated Voltage	51.2VDC
Cyclic Life	6000 (0.5C@90% DOD)
Charger/Discharge Current	50A (0.5C)
Connection of Packs	1S6P
PV Input Data	
Max. PV Power	15.6kWp
DC Input Voltage Range	160 ~ 800V
MPPT Voltage Range	200 ~ 650V
Start Up DC Voltage	160V
Nominal DC Input Voltage	550V
Number of MPPT / Strings per MPPT	2/2+1
Max. PV Input Current	26 + 13A
Max. PV Short-circuit Current	34 + 17A
AC Output Data	
Rated AC Output Power	12kW
Rated UPS Output Power	12kW
Max. Apparent AC Power	13.2kVA
Max. Output Current	27.3A
Rated Voltage	380/220 400/230 415/240V
Rated Frequency	50/60Hz
Grid Type	3 Phase/3L-N-PE
Power Factor	0.8 leading to 0.8 lagging
Cooling System	
Cooling type	HVAC
Fire Protection (Optional)	
Type	Aerosol (CE)

HBD-10-30





HBD-12-30



1. Hybrid Inverter
On-grid & Off-grid
Supporting Diesel Generator Input
$LiFePO_4$ BATTERY Long Life Design
Up to 6000 cycles
HVAC
Switchgear Easy for Wiring
Forklift Pockets & Removable Lifting
Lugs on Top
Easy for Transport

aksa BESS

HBD-E



PV
Renewable Energy



PV
(OPTION)



CLOUD
Remote Monitoring
& Control



INVERTER
Remote Monitoring
& Control

HBD-30-60



HBD-50-100



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

aksa BESS

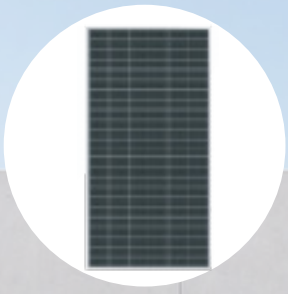


CLOUD
Remote Monitoring & Control



Battery

Inverter



PV





Generator



Grid



Normal Load



Back-up Load

ALL-IN-ONE SOLUTION

BATTERY STORAGE
Reliable & Safe

EMS
Smart Energy Management

PCS
Bidirectional Power Conversion

REMOTE CONTROL
Monitor Anytime, Anywhere