BATTERY ENERGY STORAGE SYSTEM for RENTAL & MOBILE



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Aksa BESS leads Turkey’s energy transition with its end-to-end engineering and project design expertise.

Engineered for commercial and industrial facilities, our C&I product line delivers uninterrupted power, high efficiency, and sustainable energy management across a broad spectrum of applications.

Discover our smart C&I storage solutions designed to add value to your facility in this catalog.



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R SERIES

HBD-30-60 RHBD-50-100 RHBD-100-200 R



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

Pleasecontactthe sales and check the warranty manual



General Information		HBD-30-60	HBD-50-100
Rated Output Power@25 °C		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°C (> 45°C derating)	
Max Altitude		3000m (> 2000m derating)	



Battery	HBD-30-60	HBD-50-100
Cell Type	LFP (LiFePO4)	
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 Grid-tied Certificates Safety & EMC Certificates	CAN/RS485/Ethernet/WIFI	
	EN50549, AS4777.2, VDE4105, G99, IEEE1547, NB/T 32004	
	IEC61000, IEC62109, NB/T 32004, UL1741	
Cooling System		
Cooling Type	HVAC for Air cooling	
Fire Protection	IEC61000, IEC62109, NB/T 32004, UL1741	
Type	Aerosol (CE)	
EMS		
Display and Monitor	Local screen	
Function	Energy management and coordinated control of energy storage system	





1 LiFePO4 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-30-60



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

HBD-100-200

Design Standards

HBD®is anew 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

Pleasecontactthe sales and check the warranty manual



General Information		HBD-100-200
Rated Output Power@25 °C		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°C (> 45°C derating)
Max Altitude		3000m (> 2000m derating)

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Battery	HBD-100-200
Cell Type	LFP (LiFePO4)
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 Grid-	CAN/RS485/Ethernet/WIFI
tied Certificates Safety	EN50549, AS4777.2, VDE4105, G99, IEEE1547, NB/T 32004
& 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



HBD-100-200



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GRID
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HBD-100-200



LOAD
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Power Consumption

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BATTERY STORAGE
Reliable & Safe

EMS
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Bidirectional Power Conversion

REMOTE CONTROL
Monitor Anytime, Anywhere

HBD-250-400

Design Standards

HBD®is anew 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

Pleasecontactthe sales and check the warranty manual



General Information		HBD-250-400
Rated Output Power@25 °C		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°C (> 45°C derating)
Max Altitude		3000m (> 2000m derating)

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Battery	HBD-250-400
Cell Type	LFP (LiFePO4)
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 Grid-tied Certificates Safety & EMC Certificates	CAN/RS485/Ethernet EN50549, VDE4105, G99 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



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EASY OPERATION ON ONE SCREEN



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EASY CONNECTED



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Remote Monitoring & Control

HBD-R



GRID
Backup Power



HBD-250-400



LOAD
Remote Monitoring & Control



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BATTERY STORAGE
Reliable & Safe

EMS
Smart Energy Management

PCS
Bidirectional Power Conversion

REMOTE CONTROL
Monitor Anytime, Anywhere

HBD-400-400

Design Standards

HBD®is anew 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

Pleasecontactthe sales and check the warranty manual



General Information		HBD-400-400	
Rated Output Power@25° C		400kVA	202kVA
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		407kWh	
Output	Terminals	Copper Busbar	
	Sockets	MAX. 7 Sockets available	
Protection Class		IP54	
Loading Dimension (W*D*H)		3650*2250*2250mm	
Net. Weight		~8000kg	
Loading Capacity	20'GP	1 units	
	40'HC	3 units	
Discharge Temperature Range		-20~50°C (> 45°C derating)	
Max Altitude		3000m (> 2000m derating)	

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Battery	HBD-400-400
Cell Type	LFP (LiFePO4)
Pack Capacity	40.7kWh
Pack Rated Voltage	153.6VDC
Cyclic Life	6000 Times (1C@80%DOD)
Battery Voltage of Rack	768VDC
Connection of Rack	5S2P
PCS	
Max. Current (AC)	615A
Max. Output Power	405kW
Rated Output Power	405kW
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. 400kW Changeable)
Solar Charger (OPTION)	0kW as standard (Min. 60kW-Max. 420kW Changeable)
PCS (OPTION)	405kW as standard (Min. 135kW-Max. 405kW 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-400-400



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EASY OPERATION ON ONE SCREEN



3 BUILT-IN OUTLETS FOR OPTION
EASY CONNECTED



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manufacturing technology.



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

HBD-R



PV
Renewable Energy



PV



CLOUD
Remote Monitoring
& Control



INVERTER
Remote Monitoring
& Control



HBD-400-400



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-610-610

Design Standards

HBD®is anew 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

Pleasecontactthe sales and check the warranty manual



HBD-610-610

General Information		HBD-610-610	
Rated Output Power@25 °C		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°C (> 45°C derating)	
Max Altitude		3000m (> 2000m derating)	

ISO 9001:2015 ilac-MRA CE

Battery	HBD-610-610
Cell Type	LFP (LiFePO4)
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 LiFePO4 BATTERY
Long Life Design Up to 6000 cycles
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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

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HBD-R



PV
Renewable Energy



PV



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.

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GSB SERIES



GSB-10

GSB-20

Design Standards

GSB Series

GSB® is anew range ofsecure integrated hybrid power station. With diesel generator, solar power, battery storage and hybrid solar lnverter in one secure unit.
GSB® is mainly developed for residents Power, Reduce the dependence on Main Power anddecrease the consumption cost.



Benefits

- lntegrated installation, convenient storage and transportation;
- High return on investment and quick return;
- Simple operation and easy maintenance;
- Power and Capacity can be expanded, meet different user needs;
- Seamless changeover between the power sources;

Warranty

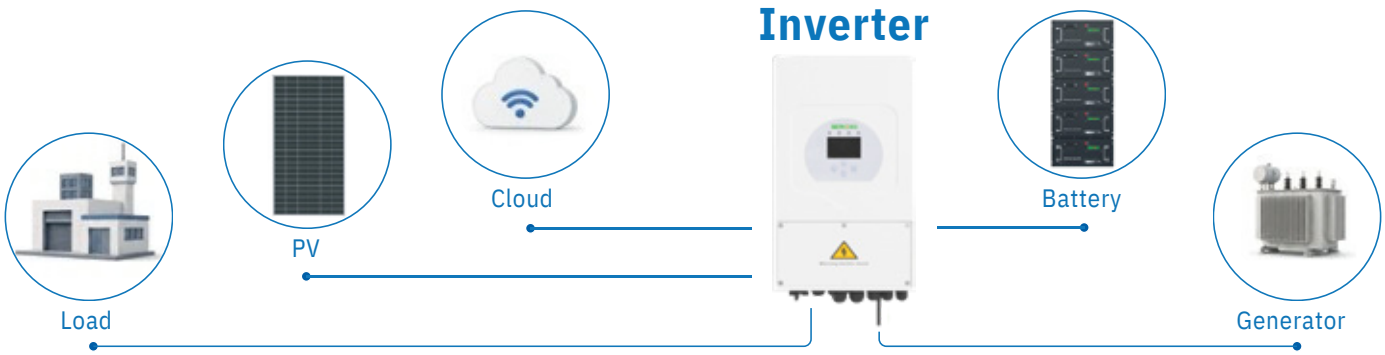
Pleasecontactthe sales and check the warranty manual;

General Information		GSB-10	GSB-20
System Rated Output Pow°er		10kVA	20kVA
Rated Power Factor		0.8 lagging	
Rated Output Voltage		380V@50Hz/60Hz, 3ph.4W (400V & 415V available)	
Min. Battery Storage Capacity		20.4kWh	41.0kWh
Max. Battery Storage Capacity		41.0kW	
Max. Solar Power		h	
Output	Terminals	Copper busbar	
	Sockets	MAX. 4 Sockets available	
Expand Dimension (W'D'H)		2950*5500*3350mm	
Loading Dimension (W'D'H)		2950*1150*2250mm	
Net. Weight		2380kg	2600kg
20'GP 40'HC Loading Capacity	Discharge	4 units	
Temperature Range		8 units	
		-20°C~50°C	

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Generator Set	GSB-10	GSB-20
Prime [illegible]	10kVA	20kVA
Eng[illegible]	KUBOTA / YANMAR / PERKINS	
Fu[illegible] Capacity	100L (Bunded)	
Solar Panel		
Maximum Power	475Wp*5pcs	
PV Cell Style	HJT	
Energy Storage Battery		
Cell Type	LFP (LiFePO4)	
Pack Model	MF51100	
Pack Capacity	5.12kWh	
Rack Voltage	51.2Vdc	
Rated Cycle Life	≥4000 (80% DOD)	
Hybrid Inverter System		
Solar Input (MPPT)	Max. 13kWp DC (MC4 connectors)	Max. 26kWp DC (MC4 connectors)
AC Input / Output	3P+N+PE / 3P+N+PE	
Peak Output Power	10kVA (0.8leading~0.8lagging)	20kVA (0.8leading~0.8lagging)



Power Priority	Highest	Secondary	Back Up
	PV	Battery	Generator
Functions	Take load/charge	Take load	Take load/charge





1 SOLAR PANEL
MAX.POWER: 2375W
With HIGH EFFICIENCY UP TO 21%~!!
Fits the practical application &
guaranteed by high-quality
manufacturing technology



2 GENERATOR
MAX. POWER: 17kW
With LOW CONSUMPTION



3 INTELLIGENT INVERTER
ONE PIECE FOR
SOLAR & BATTERY &
GRID & GENERATOR

GSB-30

GSB-50

Design Standards

GSB® is a new range of secure integrated hybrid power station. With diesel generator, solar power, battery storage and hybrid solar Inverter in one secure unit.

GSB Series

GSB® is mainly developed for residents Power, Reduce the dependence on Main Power and decrease the consumption cost.

Benefits

- Integrated installation, convenient storage and transportation;
- High return on investment and quick return;
- Simple operation and easy maintenance;
- Power and Capacity can be expanded, meet different user needs;
- Seamless changeover between the power sources;

Warranty

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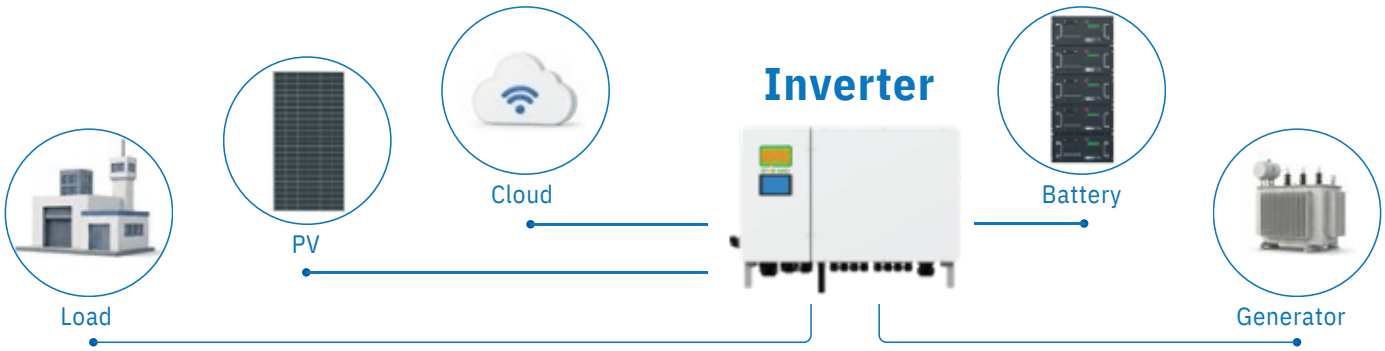


General Specification		GSB-30	GSB-50
System Rated Output Pow°er		30kVA	50kVA
Rated Power Factor		0.8 lagging	
Rated Output Voltage		380V@50Hz/60Hz, 3ph.4W (400V & 415V available)	
Min. Battery Storage Capacity		62.67kW	112k
Max. Battery Storage Capacity		h	Wh
Max. Solar Power		62.67kW 2375Wp	112k
Output	Terminals	h Copper Busbar	Wh
	Sockets	MAX. 4 Sockets available	
Expand Dimension (W'D'H)		3350*5500*3350mm	3980*5500*3350mm
Loading Dimension (W'D'H)		3350*1150*2250mm	3980*1680*2250mm
Net. Weight		2900kg	4060kg
20'GP 40'HC Loading Capacity	Discharge	2 units	1 units
Temperature Range		6 units	3 units
		-20°C~50°C	

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Generator Set	GSB-30	GSB-50
Prime [illegible]	30kVA	50kVA
Eng[illegible]	KUBOTA / YANMAR / YANMAR (EU S5)	PERKINS (*EU S5 only) / CUMMINS
Fu[illegible] Capacity	180L (Bunded)	350L (Bunded)
Solar Panel		
Maximum Power	475Wp*5pcs	
PV Cell Style	HJT	
Energy Storage Battery		
Cell Type	LFP (LiFePO4)	
Pack Model	MF154102HV	MF51314
Pack Capacity	15.667kWh	16.077kWh
Rack Voltage	614.4Vdc	358Vdc
Rated Cycle Life	≥6000@80%DOD	≥4000@80%DOD)
Hybrid Inverter System		
Solar Input (MPPT)	Max. 60kWp DC (MC4 connectors)	Max. 75kWp DC (MC4 connectors)
AC Input / Output	3P+N+PE	3P+N+PE/3P+N+PE
Peak Output Power	60kVA (0.8leading~0.8lagging)	100kVA (0.8leading~0.8lagging)



Power Priority	Highest	Secondary	Back Up
	PV	Battery	Generator
Functions	Take load/charge	Take load	Take load/charge





1 SOLAR PANEL
MAX.POWER: 2375W
With HIGH EFFICIENCY UP TO 21%~!!
Fits the practical application &
guaranteed by high-quality
manufacturing technology



2 GENERATOR: 44kW
With LOW CONSUMPTION



3 INTELLIGENT INVERTER
ONE PIECE FOR
SOLAR & BATTERY &
GRID & GENERATOR



GSBⓐ is a secure hybrid power station that integrates a diesel generator, solar energy, battery storage, and a hybrid solar inverter into a single unit. Engineered primarily for residential power supply, it helps cut electricity expenses while reducing reliance on the main grid.


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