

TECHNICAL DESCRIPTION

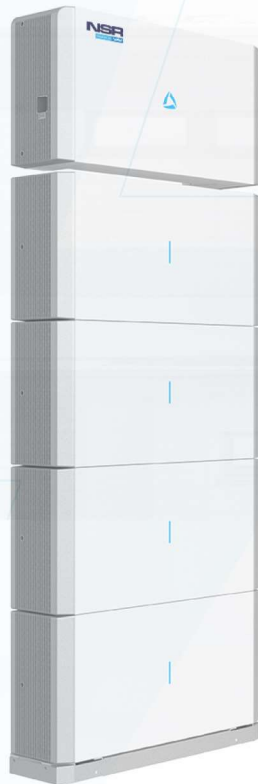
NSR HOME BATTERY ENERGY STORAGE SYSTEM



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GENERAL DESCRIPTION

NSR Home BESS is a Hybrid all in one Battery Energy storage system, compatible with high voltage LFP battery system, it can be connected to external PV power station, AC generator and Grid power. The use of NSR HBESS System can achieve the best function to maximize clean solar power usage for home application. The system reduces significantly the dependence on grid, improve power supply quality and Ensure the power consumption of emergency load.



NSR HBESS3-10

PRODUCT HIGHLIGHTS AND BENEFITS

- Convenient - Heat stimulation for the best layout
- Quiet - Less than 25 db, no noise pollution
- Flexible - IP65 protection up to 12kW, 40kWh battery capacity
- Friendly user and minimal maintenance
- Adaptive - self-power, backup and load-shifting modes
- Independent - No additional modules and inverters are required


MODEL COMPARISON

GENERAL INFORMATION 1PHASE SOLUTION

Inverter Modell 	HBESS1-3	HBESS1-5	HBESS1-6
Rated Output Power	3600W	5000W	6000W
Rated Output Voltage	230V@50Hz,1ph.	230V@50Hz,1ph.	230V@50Hz,1ph.
Battery Storage Capacity	5,12kWh - 10.24kWh	10,24kWh	10,24kWh
Loading Dimension (L*W*H)	800*240*1090mm	800*240*1090mm	800*240*1090mm
Operating Temp. Range	-10~50°C	-10~50°C	-10~50°C
Installation	Wall and floor mounted	Wall and floor mounted	Wall and floor mounted
Warranty	10 Years Performance Warranty	10 Years Performance Warranty	10 Years Performance Warranty

DETAILED INFORMATION

Hybrid inverter specifications

Modell 	HBESS1-3	HBESS1-5	HBESS1-6
Recommended Max. PV input	9.0 kWp		
Max. PV input voltage	580Vdc		
No. of MPPTs	2		
No. of PV strings per MPPT	1/1		
Max. PV input current	15A/15A		
DC (PV) switch	Yes		

DC Input and output (Battery)

Battery voltage range	360-500Vdc		
Max. charge/discharge current	25A		

AC Input and output (On-Grid)

Rated AC output power	3,6 kW	5 kW	6 kW
Max. output/input current	15,6A	21,7A	26,1A

MODEL COMPARISON

Inverter Modell NSR	HBESS1-3	HBESS1-5	HBESS1-6
Max. input current	31,2A	43,4A	52,2A
Rated grid frequency	50Hz,1ph.	50Hz,1ph.	50Hz,1ph.
Adjustable power factor	0,8 (leading)-0,8 (lagging)		
AC Output (Back-up)			
Rated AC output voltage	230 VAC	230 VAC	230 VAC
Rated output frequency	50 Hz	50 Hz	50 Hz
Rated output power	3,6 kW	5 kW	6 kW
General			
Weight	17 kg		
Dimension (W*H*D)	800*280*233mm		
Protections	AFCI(optional), Anti-Islanding protection, DC reverse polarity protection, Insulation monitoring, DC/AC surge protection, AC short-circuit		
Enclosure type	IP65		
Communication interface	Portal-WiFi (standard)/4G (optional), RS485		

DETAILED INFORMATION

Battery

Modell	NSR HST 1
Cell Type	LFP(LiFePO4)
Energy capacity	5kWh
Scalable capacity range	5-20kWh
DOD	max. 100%
Rated power	4 kW
Weight	51 kg
Topology	Isolated
Enclosure type	IP65

MODEL COMPARISON

GENERAL INFORMATION 3PHASE SOLUTION

Inverter Modell	HBESS3-5	HBESS3-6	HBESS3-8	HBESS3-10	HBESS3-12
Rated Output Power	5000W	6000W	8000W	10000W	12000W
Rated Output Voltage	400V@50Hz,3ph.				
Battery Storage Capacity	5kWh-40kWh				
Loading Dimension (L*W*H)	800*240*1995mm				
Operating Temp. Range	-10~50°C		-10~50°C		-10~50°C
Installation	Wall and floor mounted		Wall and floor mounted		Wall and floor mounted
Warranty	10 Years Performance Warranty		10 Years Performance Warranty		10 Years Performance Warranty

DETAILED INFORMATION

Hybrid inverter specifications

Modell	HBESS3-5	HBESS3-6	HBESS3-8	HBESS3-10	HBESS3-12
Recommended Max. PV input	23.0 kWp		29 kWp		
Max. PV input voltage	1000Vdc				
No. of MPPTs	2				
No. of PV strings per MPPT	1/1		2/1		
Max. PV input current	16A/16A		27A/16A		
DC (PV) switch	Yes				

DC Input and output (Battery)

Battery voltage range	650-900Vdc				
Max. charge/discharge current	25A				

AC Input and output (On-Grid)

Rated AC output power	5 kW	6 kW	8 kW	10 kW	12 kW
Max. output current	7,9A	9,6A	12,8A	16A	17,4A

MODEL COMPARISON

Inverter Modell	HBESS3-5	HBESS3-6	HBESS3-8	HBESS3-10	HBESS3-12
Max. input current	14,4A	17,4A	23,2A	26A	26A
Rated grid frequency	50Hz				
Adjustable power factor	0,8 (leading)-0,8 (lagging)				
AC Output (Back-up)					
Rated AC output voltage	400 VAC 3pn				
Rated output frequency	50 Hz				
Rated output power	5 kW	6 kW	8 kW	10 kW	12 kW
General					
Weight	27 kg				
Dimension (W*H*D)	800*400*200mm				
Protections	AFCI(optional), Anti-Islanding protection, DC reverse polarity protection, Insulation monitoring, DC/AC surge protection, AC short-circuit				
Enclosure type	IP65				
Communication interface	Portal-WiFi (standard)/4G (optional), RS485				

DETAILED INFORMATION

Battery

Modell	NSR HST3 <small>Powered by VAV</small>
Cell Type	LFP(LiFePO4)
Energy capacity	5kWh
Scalable capacity range	5-40kWh
DOD	max. 100%
Rated power	4 kW
Weight	52kg
Topology	Isolated
Enclosure type	IP65