

NSR

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VAV

ENERGY

PRO

NSR INDUSTRIAL ENERGY STORAGE SYSTEM

Technical Description



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GENERAL DESCRIPTION

Energy Pro BESS is a secured, integrated Battery Energy storage system. This mobile and modular solution includes batteries, PCS and control system, HVAC, fire protection and auxiliary components for additional options. It can be connected to external PV power station, AC generator and Grid power. Energy Pro BESS is mainly developed for no emission and low noise, reduces significantly the dependence on grid, improve power supply quality and Ensure the power consumption of emergency load.



PRODUCT HIGHLIGHTS AND BENEFITS

- Integrated installation, convenient storage and transportation
- High return on investment
Friendly user and minimal maintenance
- Power and Capacity can be expanded to meet different user needs
- Accept customer customization, suitable for various scenarios
- Ensure continues stable power supply without disruption
- Built in Load-balance solution in order to optimize efficiency

Main Components



INTELLIGENT PCS (Power converter system)

- with EMS (Energy Management System) to manage all BESS functions (switching between modes (grid/solar/genset etc.), charging/discharging)
- EASY Operation on screen



LiFePO4 BATTERY

- Long Life Design Up to 6000 cycles
- High Quality Based on Specification Consistency of CELLS



HVAC and FIRE PROTECTION

- Cooling & Heating
- Quick Response < 10s
- Dedicated Backup ups



Battery Comparison

GENERAL INFORMATION

Modell	NSR BESS 30.60	NSR BESS 50.100	NSR BESS 100.200	NSR BESS 250.400	NSR BESS 500.1000
Rated Output Power@25	30kW	50kW	100kW	250kW	500kW
Rated Output Voltage	400V@50Hz,3ph.	400V@50Hz,3ph.	400V@50Hz,3ph.	400V@50Hz,3ph.	400V@50Hz,3ph.
Battery Storage Capacity	60kWh	100kWh	201kWh	401kWh	1.004kWh
Loading Dimension (L*W	2300*1200*2300mm	2300*1200*2300mm	2.300*2.300*2.300mm	3.000*2.300*2.300mm	20'HC
Weight	2.150kg	2.150kg	4.150kg	6.850kg	18.000kg
Operating Temp. Range	-10~50°C	-10~50°C	-10~50°C	-10~50°C	-10~50°C
Warranty	10 Years Performance Warranty	10 Years Performance Warranty	10 Years Performance Warranty	10 Years Performance Warranty	10 Years Performance Warranty

DETAILED INFORMATION

Battery

Modell	NSR BESS 30.60	NSR BESS 50.100	NSR BESS 100.200	NSR BESS 250.400	NSR BESS 500.1000
Cell Type	LFP(LiFePO4)	LFP(LiFePO4)	LFP(LiFePO4)	LFP(LiFePO4)	LFP(LiFePO4)
Cyclic Life	6.000(0.5C@90%DOD)	6.000(0.5C@90%DOD)	6.000(0.5C@90%DOD)	6.000(0.5C@90%DOD)	6.000(0.5C@90%DOD)
Charger/Discharge Curre	140A(0.5C)	140A(0.5C)	140A(0.5C)	140A(0.5C)	140A(0.5C)
Battery Voltage of Cluste	716.8VDC	716.8VDC	716.8VDC	716.8VDC	716.8VDC
Connection of Cluster	16S5P	16S5P	16S5P	16S5P	16S5P

Inverter & Charger

Battery Voltage Range	150 -750VDC	150 -750VDC	500-850VDC	600-900VDC	600-900VDC
Max.Current (DC)	90A	90A*2	225A	550A	Up to 860A
Max. Output Power	33kW	33kW*2	110kW	275kW	550kW
Rated Output Power	30kW	30kW*2	100kW	250kW	500kW
Rated Voltage	400Vac	400Vac	400Vac	400Vac	400Vac

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Photographs are for illustrative purposes only and may not reflect final specification.
All information in this document is substantially correct at time of printing and may be altered subsequently. Final weight and dimensions will depend on completed specification.

