EnerArk

Integrated Outdoor Battery Energy Storage Cabinet

Vilion-BESS
energy flowing with demand

- Multiple cabinets connected in parallel up to **60 Nos.**
- Supporting DC coupling with solar
- Global installation and application
- Certificates of CE(IEC62619, IEC62477, IEC61000), G99, EN50549, VDE4105, AS4777, UN3480, UN38.3

4 tiers of safety design for higher **safety** and reliability.

System response time < 100ms. Grid auxiliary service.

Accessing of **solar, wind turbine, diesel generator**, etc.

Parallel connection of multiple cabinets up to **60 Nos** for larger power & capacity.

Modularized design and **easy & quick O&M** optimize the system utilization.

Office Park/Community

Peak-load Shifting
TOU Tariff Arbitrage
Electricity Cost Saving
Grid Auxiliary Service

Solar + Storage + Charging Station

Store Extra Solar Energy
Peak-load Shifting
Electricity Cost Saving
Eco-friendly Solution

Plaza/Hospital/Hotel

Peak-Shaving
Backup Power
Demand Side Response
Power Quality Optimization
TOU Tariff Arbitrage

Solar + Storage Microgrid

Backup Power
Store Extra Solar Energy
Distributed Energy Integration
Optimizing The Power
Grid Upgrading

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Integrated Outdoor Battery Energy Storage Cabinet

Parameters	EnerArk2.0-NBN-P30	EnerArk2.0-NBN-P50	EnerArk2.0-NBN-P100
Battery Parameters			
Cell type & capacity		$LiFePO_4$ – 280Ah	
Battery module type		1P20S	
System capacity range	143kWh~ 215kWh	143kWh ~ 215kWh	215kWh
AC Side On-grid Parameters			
Grid type		3P4W	
Charging/discharging power	30kW	50kW	100kW
Rated grid voltage		AC 400V	
Grid voltage range		±15%	
Frequency range		45Hz ~ 55Hz	
Rated output current	43A	72A	144A
Harmonics		⩽3% (@rated power)	
General Parameters			
Dimension (W*H*D)		1900mm*2100mm*1330mm	
Max. weight		2500kg	
Ingress protection		IP55 (Battery compartment) IP34 (Electrical compartment)	
Cooling method		HVAC (Battery compartment) & Forced air cooling (Electrical compartment)	
Fire fighting system		FM200/Novec1230	
Anti-corrosion grade		C3	
Relative humidity		0-95% (non-condensing)	
Operating temperature *		-20℃~50℃	
Operating altitude**		<2000m	
Noise emission		⩽75dB	
Communication interface		RS485, Ethernet	
Communication protocol		Modbus RTU, Modbus TCP/IP	
Warranty		5 years (can be extended up to 10 years)	
PV Side Parameters (Optional)			
Max. PV input power	30kW/50kW	30kW/50kW/100kW	30kW/50kW/100kW
MPPT voltage range	200V~850V	200V~850V	200V~850V
Number of MPPT	1/1	1/1/2	1/1/2
Number of PV inputs	1/1	1/1/2	1/1/2
Max. input current	100A/200A	100A/200A/400A	100A/200A/400A

* The system will be derated when the ambient temperature exceeds 45℃.

** The system will be derated when the altitude is between 2000m and 3000m.

Vilion (Shenzhen) New Energy Technology Co., Ltd.
Tel: +86 0755 89454625
Email: Contact@szweilan.com

Version No.: 1.0
Website: www.szvilion.com
Add: Lianzhan Industrial Park, No.2 Lanjing North Road, Pingshan District, Shenzhen, China.