

EnerArk

Integrated Outdoor Battery Energy Storage Cabinet



Energy on Demand,
Powering a Bright Future.



- Parallel operation of multiple cabinets
- Global installation and application
- Supporting DC coupling with solar
- CE certificates for the whole system



- 5 tiers of safety design and water fire suppression for higher safety.
- Quickly system response for grid ancillary service.
- Accessing of solar, wind turbine, diesel generator, etc.
- Parallel connection of multiple cabinets for larger power & capacity.
- Modular design and simple & fast O&M optimize the system utilization.

Factory/Plaza/
Hospital/Community

Peak-load Shifting
TOU Tariff Arbitrage
Tariff Savings
Demand Side Response

Solar + Storage +
Charging Station

Store Extra Solar Energy
Peak-load Shifting
Tariff Savings
Eco-friendly Solution

Distribution Network
Operator (DNO)

Grid Ancillary Service
VPP

Solar + Storage
Microgrid

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





Parameters	EnerArk-NBN-P30	EnerArk-NBN-P50	EnerArk-NBN-P100
Battery Parameters			
Cell type & capacity		LiFePO ₄ – 280Ah	
Battery module type		1P20S	
System capacity range	125kWh~215kWh	125kWh~215kWh	215kWh
AC Side On-grid Parameters			
Grid type		3P4W	
Charging/discharging power	30kW	50kW	100kW
Rated grid voltage		AC400V ±15%	
Frequency range		50(±5)Hz	
Rated AC output current	43A	72A	144A
Power factor		0.8 (Leading) ~ 0.8 (Lagging)	
Harmonics		≤3% (@rated power)	
AC Side Off-grid Parameters			
Load type		3P4W	
Rated output power	30kW	50kW	100kW
Rated output voltage		AC 400V±1%	
Rated output frequency		50Hz	
Frequency accuracy		0.2Hz	
Rated current	43A	72A	144A
General Parameters			
Dimension (W*H*D)		1686mm*2093mm*1392mm	
Max. weight		2500kg	
Protection level		IP55 (Battery cabinet), IP54 (Electrical cabinet)	
Cooling method		HVAC (Battery cabinet) & Forced air cooling (Electrical cabinet)	
Fire fighting system		Combustible gas detection + Novec1230 + water fire suppression	
Anti-corrosion grade		C3	
Relative humidity		0~95% (non-condensing)	
Operating temperature*		-30°C~50°C	
Operating altitude**		<3000m	
Noise emission		≤75dB	
Communication interface & protocol		Rs485, Ethernet; Modbus RTU, Modbus TCP/IP	
Display		HMI	
Warranty		5-year product warranty 10-year performance guarantee	
PV Side Parameters (Optional)			
Max. PV input power	30kW/60kW	30kW/60kW/90kW/100kW	30kW/60kW/90kW/120kW
MPPT voltage range		300V ~ 800V (<215kWh); 300V~680V (=215kWh)	
Number of MPPT	1/1	1/1/2/2	1/1/2/2
Number of PV inputs	1/1	1/1/2/2	1/1/2/2
Max. input current	100A/200A	100A/200A/300A/400A	100A/200A/300A/400A
Certifications			
System: CE(IEC61000, IEC62477), IEC62619, UN3480, CEI021, CEI016, VDE2510, IEC63000-ROHS, IEC62933			
PCS: G99, NC-RfG, EN/IEC62477, EN50549-1, EN50549-2, EN/IEC61000, AS/NZS 4777, VDE4105, NRS097, VDE4110, R25&TOR, C10/11, EIFS2018, etc.			
Cell: IEC62619, UL1973, UL1642, UL9540A, UN38.3			
PACK: UN38.3			

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

** The system will be derated when the altitude exceeds 3000m.



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