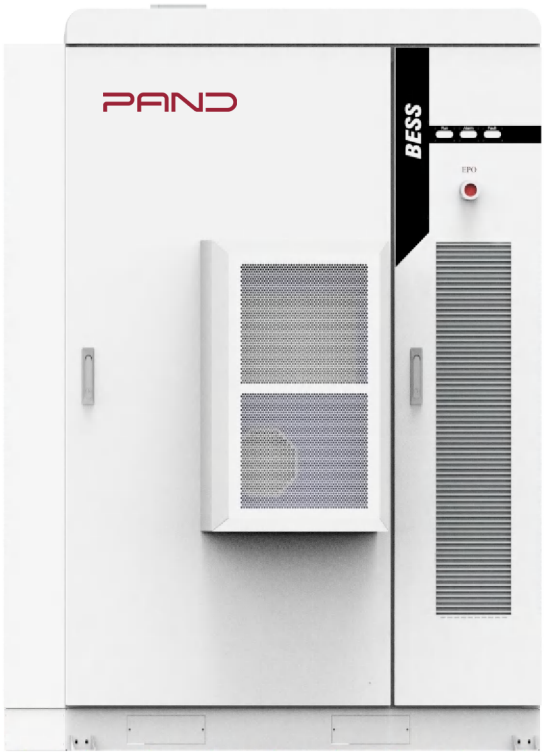
PAND
Cool the Earth & Power the Life

EnerArk-M

Integrated Outdoor Battery Energy Storage Cabinet

- All–in–One and highly integrated design
- Multiple cabinets connected in parallel up to **60 Nos.**
- Supporting DC coupling with solar
- Compact design and brilliant energy storage application experience



4 tiers of safety design; Reserved **storz nok** for water extinguishing.

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

EnerArk-M

Integrated Outdoor Battery Energy Storage Cabinet

Parameters	EnerArk2.0-M-NBN-P30	EnerArk2.0-M-NBN-P50
Battery Parameters		
Cell type & capacity	$LiFePO_4$ – 280Ah	
Battery module type	1P20S	
System capacity range	107kWh, 125kWh	107kWh, 125kWh
AC Side On-grid Parameters		
Grid connection	3P4W	
Charging/discharging power	30kW	50kW
Rated grid voltage	AC 400V	
Grid voltage range	±15%	
Frequency range	45Hz ~ 55Hz	
Rated output current	43A	72A
Harmonics	⩽3% (@rated power)	
AC Side Off-grid Parameters		
Load connection	3P4W	
Rated output power	30kW	50kW
Frequency range	50±0.2Hz	
Rated voltage	AC 400V	
General Parameters		
Dimension (W*H*D)	1400mm*2100mm*1230mm	
Max. weight	About 1660kg	
Protection level	Outdoor installation, 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 to 10 years)	
PV Side Parameters (Optional)		
Max. PV input power	30kW/60kW	30kW/60kW/90kW/120kW
MPPT voltage range	200V~850V	200V~850V
Number of MPPT	1/1	1/1/2/2
Number of PV inputs	1/1	1/1/2/2
Max. input current	100A/200A	100A/200A/300A/400A

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

**The system will be derated when the altitude exceeds 2000m.

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