

EnerArk-M

Integrated Outdoor Battery Energy Storage Cabinet



Energy on Demand,
Powering a Bright Future.

All-in-One and highly integrated design

Parallel operation of multiple cabinets

Supporting DC coupling with solar

Grid ancillary services



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 Response



Solar + Storage +
Charging Station

Store Extra Solar Energy
Peak-load Shifting
Tariff Savings
Eco-friendly Solution
Power Expansion for
More Chargers



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

EnerArk-M

Integrated Outdoor Battery Energy Storage Cabinet



Parameters	EnerArk-M-NBN-P30	EnerArk-M-NBN-P50
Battery Parameters		
Cell type & capacity	LiFePO ₄ – 280Ah	
Battery module type	1P20S	
System capacity range	107kWh	
AC Side On-grid Parameters		
Grid type	3P4W	
Charging/discharging power	30kW	50kW
Grid voltage range	AC 400V ±15%	
Frequency range	45Hz ~ 55Hz	
Rated AC output current	43A	72A
Power factor	0.8 (Leading) ~ 0.8 (Lagging)	
Harmonics	≤3% (@rated power)	
AC Side Off-grid Parameters		
Wiring method	3P4W+PE	
Output voltage range	400(±1%)V	
Rated output power	30kW	50kW
Rated output Frequency	50Hz	
Frequency accuracy	0.2Hz	
General Parameters		
Dimension (W*H*D)	1220mm*2093mm*1340mm	
Max. weight	About 1500kg	
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	RS485, Ethernet	
Communication protocol	Modbus RTU, Modbus TCP/IP	
Warranty	5-year product warranty 10-year performance guarantee	
PV Side Parameters (Optional)		
Max. PV input power	30kW/60kW	30kW/60kW/90kW/100kW
MPPT voltage range	300V ~ 800V	300V ~ 800V
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
Certifications		
System: CE(IEC61000, IEC62477), UN3480, CEI021, CEI016, VDE2510, IEC63000-ROHS, IEC62933 PCS: GB/T34120&34133, CGC-R46103:2018A, G99, VDE4105, EN50549-1, EN50549-2, AS/NZS 4777, CE(IEC61000, IEC62477), IEC62109, NC RfG, 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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