

EnerArk2.0-M Series 30~50kW/107kWh

PCS + Battery Cabinet



CE (IEC 61000, IEC62619, IEC62477), UL,
G99, CEI 0-21, CEI 0-16, UN38.3.



5 Tiers Safety Design
Much safer & More reliable



Response <200ms
Applied for grid auxiliary service



Multi Energy Accessing
Solar, diesel generator, wind turbine, etc



More Availability
Modular design + O&M cloud platform

- Plug-and-Play for ready to use
- Compact with modular design
- Parallel operation up to 60NOs
- Unbalanced loads operation
- Support with solar
- Intelligent remote monitoring
- IP55 grade, suitable for outdoor

Battery Parameters

	EnerArk-M-NBN-P30	EnerArk-M-NBN-P50
Battery cell type	LiFePO ₄ - 280Ah	
Battery model	IP20S	
Battery capacity range (kWh)	107	

On-Grid AC Side Parameters

Grid connection type	3P4W	
Charging / discharging power (kW)	30	50
Grid voltage range	AC 400V ±15%	
Frequency range (Hz)	50±5	
Rated AC output current (A)	43	72
Power factor	0.8 (Leading) ~ 0.8 (Lagging)	
Harmonics	≤3% (at rated power)	

Off-Grid AC Side Parameters

Wiring method	3P4W+PE	
Output voltage range	400(±1%)	
Rated output power	30	50
Rated output frequency (Hz)	50	
Frequency accuracy (Hz)	0.2	

General Parameters

Dimensions (mm) (W*H*D)	1220*2093*1340	
Maximum weight (kg)	About 1500	
Protection grade	IP55 (Battery Cabinet) IP54 (Electrical Cabinet)	
Cooling method type	Battery Cabinet (air conditioner) & Electrical Cabinet (forced air cooling)	
Fire fighting system	Combustible gas detection + Novec1230 + Water fire protection	
Altitude (m)**	<2000	
Operating temperature (°C)*	-20~50	
Corrosion protection grade	C3	
Noise level (dB)	≤75	
Communication interface	RS485, Ethernet	
Communication protocol	Modbus RTU, Modbus TCP/IP	
Display	HMI	
Product standard warranty	5 years, 6000 cycles (0.5C, 95%DOD, EOL:70%)	

PV Side Parameters (Optional)

Maximum PV input power (kW)	30/60	30/60/90/100
MPPT voltage range (V)	200~850	
Number of PV inputs	1/1	1/1/2/2
Maximum input current (A)	100/200	100/200/300/400
Certifications	System	CE(IEC61000, IEC62477), IEC62619, UN3480, CEI021, CE1016, VDE2510
	Converter	CE(IEC61000, IEC62477), G99, VDE4105, EN50549, NC RIGAS/NZS 4777, IEC62109, NRS097, VDE4110(on going)
	Cell	IEC62619, UL 1973, UL 1642, UL9540A
	PACK	UN38.3

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

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