



NR EnergyOne Series Liquid Cooling Energy Storage Integrated Cabinet



Inherent safety

- Single-cluster fine control, no parallel connection on DC side
- The energy storage cabinets are independent to achieve electrical and fire safety isolation
- Cell temperature difference $< 3^{\circ}\text{C}$, improving safety and cycle life

Economical

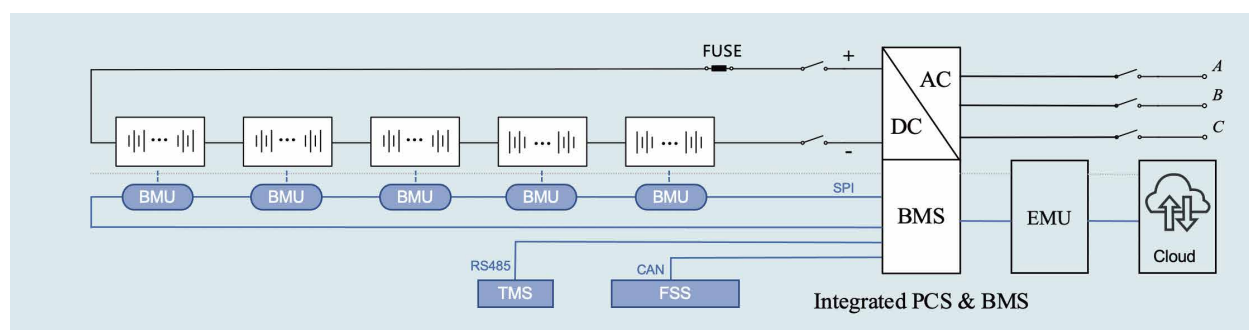
- Multiple control modes such as PQ and VSG, suitable for various application scenarios
- Dual-Cycle Intelligent Liquid Cooling, No Derating at High Temperatures
- Precise demand control, supporting site-wide load balancing

High efficiency

- Up to 90% peak system efficiency
- New Liquid Cooling Delivers 1% Efficiency Improvement
- PCS three-level topology, the maximum efficiency is 99%

Convenient

- Battery and PCS are fully liquid-cooled, with IP66 high degree of protection
- Integrated cabinet directly outputs AC, and supports parallel connection of multiple cabinets on the AC side
- Online Diagnostics & Smart O&M with Unified Multi-Station Management



Technical Specifications

Model		PCS-8812PB-125 / 261- AC400
Electrical Parameters	Battery Cell	LFP 314Ah
	Rated Power	125kW
	Rated Energy	261.248kWh
	DC Voltage Range	650~949Vdc
	Battery Maximum Current	211A
	Rated Grid Voltage	400Vac
	Allowable Grid Voltage	340~440Vac
	Rated AC Current	180A
	Maximum AC Current	198A
	Rated Grid Frequency	50 Hz / 60 Hz
	Allowable Grid Frequency	45~55 Hz / 55~65 Hz
	Auxiliary Power Input	220Vac (50 Hz / 60 Hz)
	THD	< 1.5%
	Charge and Discharge Conversion Time	< 20ms
	Power Factor	> 0.99
	Power Factor Range	-1~1
	AC Access Method	Three-phase Three-wire System
Performance and Safety	Fire Protection	Aerosol
	Explosion-proof	Module Explosion Venting
	Thermal Management	Both battery and PCS are liquid cooled
	Certification	GB/T 36276、GB / T 34131、UN38.3
Mechanical Parameters	Weight ¹	2400kg
	Dimensions (W×H×D)	930×2400×1300
	Degree of Protection	Cabinet: IP55
		PCS: IP66
		BATTERIES: IP67
	Range of Working Temperature	-30~50°C (>45°C derating)
	Working Humidity Range	0~100%
	Maximum Operating Altitude	3,000m
Noise ²	Standard : ≤68dB (1m)	
	Optional Noise Reduction Kit: ≤62dB (1m)	
Interface & Protocols	Communication Interface	RJ45
	Communication Protocol	IEC61850, Modbus TCP
	Remote Operation and Maintenance	Cloud, APP (Android/APPLE)

Note 1: Specifications are subjects to the actual delivery.

Note 2: Tested under the conditions of 40°C ambient temperature, 125kW power, and unobstructed air inlets and outlets.



www.nrec.com/en

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