

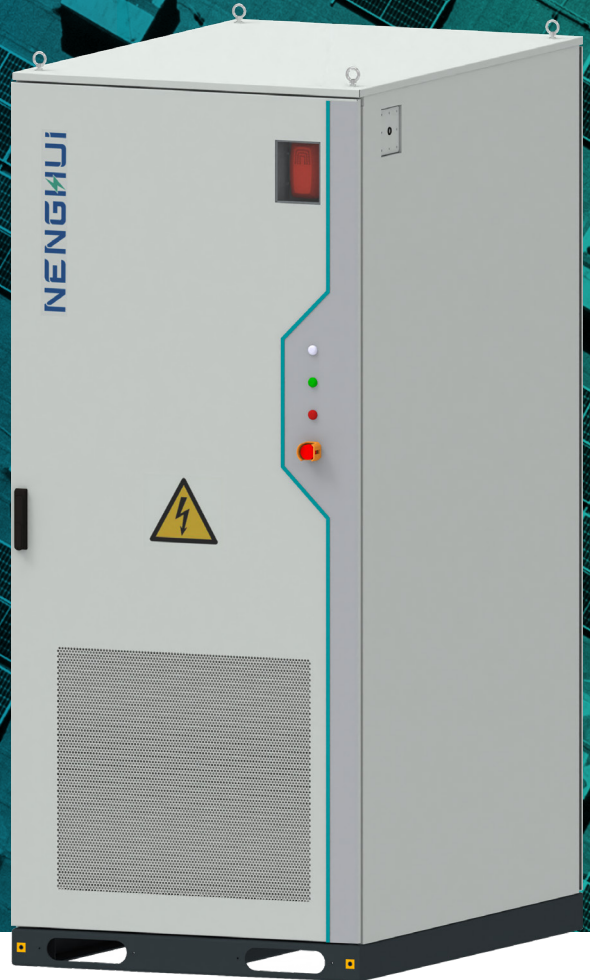
NENGHUI

NE261L

All-in-one Liquid-cooled ESS Cabinet

261kWh

Nenghui all-in-one liquid-cooled ESS cabinet adopts advanced cabinet-level liquid cooling and temperature balancing strategy. The cell temperature difference is less than 3°C, which further improves the consistency of cell temperature and extends the battery life. The modular design makes the parallel solution more flexible and has a higher energy density, which significantly improves the economy, safety and construction convenience of ESS projects.



All-in-one Design

High integration with LFP battery, BMS, PCS and EMS as well as FSS.



Smart O&M

Easy online O&M service with NHCloud both on cloud platform and APP. Support 7*24h cloud-edge monitoring.



Long Cycle Life

Over 8,000 times cycle life, excellent performance of battery system.



Liquid Cooling

Liquid-cooled system is designed with low energy consumption. Lower temperature difference of the cells and higher cell consistency.



Flexible Extension

Modular design which is easy to extend parallel. Support maximum 12 units connected in parallel for on-grid and maximum 6 units for off-grid.



Ultimate Safety

Cabinet and pack-level fire suppression system with aerosol (water suppression is reserved). Support temperature, smoke and gas multiple detection. Passed UL9540A, NFPA 69, IEC62933 certification.

Technical Specification

DC Side

Cell Type	LFP314Ah
PACK	52.25kWh/1P52S
Battery System	261.25kWh/1P260S
Rated Voltage	832Vdc
Voltage Range	728-936Vdc
Thermal Management Method	Liquid Cooling
Pack Ingress Rating	IP67

AC Side

Rated Power	125kW
Max. Power	137kW (1 min)
THDi	≤3%
DC Ratio	<0.5%lpn
Nominal Voltage	400Vac/3P+N+PE
Power Factor	-1 lagging~1 leading
Nominal Frequency	50Hz/60Hz

General Data

Max. System Efficiency	90%
Charge/Discharge Rate	0.5P
DoD	95% (25±2°C)
SOC Accuracy	3%
Cycle Life	8,000 times
Switching Time	<100ms
Connectivity	Ethernet /RS485
Ingress Rating	IP55
Operating Temperature	-30°C~50°C
Humidity	5~95%RH, non-condensing
Noise	≤75dB
Altitude	≤2,000m (derating above 2,000m)
Fire Safety	Aerosol
Dimensions (W*D*H)	1,400*1,000*2,350(mm)
Weight	2.7 t
Compliance	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056, IEC62933, UL9540A, EN50549

Usage Scenario

Peak Shifting, Peak Shaving,
Demand Response
PV Integration
Back-up Power
Micro Grid

