

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.



Compact design

1.4m² footprint only, easy transportation and fast installation.



High integration

261kWh energy in one cabinet with remarkable endurance.



Efficient cooling

Optimal in-pack duct design, achieve high-efficiency cooling with low energy consumption.



Long cycle life

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



Flexible expansion

Modular design, simplified parallel expansion.



Ultimate safety

In-pack fire warning and protection with NOVEC1230/aerosol, prevent heat diffusion and runaway.

Technical Specification

DC Side	
Cell Type	LFP314Ah
PACK	52.25kWh/1P52S
Battery System	261.25kWh/1P260S
Rated Voltage	832Vdc
Voltage Range	728-936Vdc
Pack Ingress Rating	IP67
AC Side	
Rated Power	125kW
Max. Power	137.5kW (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
Cooling	Active liquid cooling
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)	1000*1400*2450 mm
Weight	About 2.8 t
Compliance	UN38.3,IEC62619,IEC63056, IEC60730,IEC61000-2-4,IEC62477,IEC62933,UL9540A,NFPA69

Usage scenario

Peak Shaving
Backup Power
Solar-Storage Integration
Demand Response
Microgrid Operation

