

# NENGHUI

## NE233L

### All-in-one Liquid-cooled ESS Cabinet

233kWh

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

1.4m<sup>2</sup> footprint only, easy transportation and fast installation.



#### High Integration

233kWh 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	LFP280Ah
PACK	46.592kWh/IP52S
Battery System	232.96kWh/IP260S
Rated Voltage	832Vdc
Voltage Range	728-936Vdc
Pack Ingress Rating	IP65

## AC Side

Rated Power	100kW
Max. Power	110KW
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	-25°C~55°C
Humidity	5~95%RH, non-condensing
Noise	≤75dB
Altitude	≤2,000m (derating above 2,000m)
Fire Safety	Aerosol
Dimensions (W*D*H)	1,050*1,350*2,400(mm)
Weight	2,570kg
Compliance	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056, UL9540A, EN50549

## Usage Scenario

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

