

NENGHUI

NB418L

Liquid-cooled Battery Cabinet

418kWh

Nenghui liquid-cooled battery cabinet adopts an 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 can be combined with the centralized PCS to form an ESS with higher energy density, which significantly improves the economy, safety and construction convenience of ESS projects.



Compact Design

2m² footprint only, easy transportation & fast installation.



High Integration

418kWh energy in one cabinet with remarkable endurance.



Efficient Cooling

Optimal in-PACK duct design, achieve high-efficient cooling and 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 aerosol, prevent heat diffusion and runaway.

Technical Specification

DC Side

Cell Type	LFP314Ah
DoD	95%(25±2°C), 0.5P
Configuration	1P416S
Rated Energy	418kWh
Rated Voltage	1331.2Vdc
Dc Voltage Range	1164.8-1497.6Vdc
Pack Ingress Rating	IP65

General Data

System Efficiency	≥93% (aux. power excluded)
Rated Charge/Discharge Rate	0.5P
Cycle Life	8,000times
Operating Temperature	-25°C~55°C
Fire Safety	Aerosol
Ingress Rating	IP55
Cooling	Liquid cooling
Humidity	5~95%RH, non-condensing
Altitude	≤2,000m (derating above 2,000m)
Dimensions (W*D*H)	1,350*1,350*2,400mm
Weight	3.5T
Compliance	UN38.3,IEC62619,IEC62477,IEC63056,CE-EMC

Usage Scenario

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

