NENGHUI ENERGY

# 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
1.7m² footprint only, easy transportation and fast installation.

### High integration
Multiple units connected in parallel achieve MV/HV connection with PCS-boost containers.

### 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
Support seamless cabinets combination and flexible grid access.

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

## Technical Specification

| Specifications | |
|---|---|
| Cell Type | LFP314Ah |
| DoD | 95%(25±2°C) |
| Configuration | 1P416S |
| Rated Energy | 418kWh |
| Rated voltage | 1331.2Vdc |
| Dc voltage Range | 1040-1497.6Vdc |
| Pack Ingress Rating | IP65 |
| 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 |
| Altitude | ≤2,000m (derating above 2,000m) |
| Dimensions (W*D*H) | 1,380*1,400*2,615(mm) |
| Weight | 3.5T |
| Compliance | UN38.3, IEC62477, IEC61000, IEC62619, IEC63056, UL9540A |

## Usage scenario

C&I PV, high voltage direct current coupled grid-connected energy storage system