

CNLP512-100NH

(512V100Ah)



As we all know, the battery quality is one of the most critical factors in UPS performance. It is a global leading provider of energy storage system with 20+ years battery manufacturing experience. Furthermore, it is also the global manufacturer of customized industrial UPS with rich UPS system integration experience. UPS lithium battery can support 1C/2C/3C/4C/5C/6C high-current discharge program, meeting the needs of different backup times. Besides, our lithium batteries are highly compatible with many well-known brands of UPS, such as Vertiv, Eaton, Schneider, Riello, APC, Borri, Socomec, East and so on.

Advantages:



Safer and high quality

- Adopting grade A prismatic lithium iron phosphate cells which have ultra high rated 8C discharge ability and with authoritative certification.
- Adopting four-stage safety technology, Ensuring the ultimate safety.
- ✓Lithium iron phosphate technology.
- ✓Intelligent battery management system(BMS), cell level management.
- ✓Built in independent physical aerosol fire extinguishers, safe and green.
- ✓Built in cabinet fire extinguishers, strong security.



Smarter and high reliability

- BMS protection: overtemperature, low temperature, over-voltage, low-voltage, overcurrent, short-circuit protection.
- Three-level BMS system ensures reliability.
- Monitoring the battery status at any time, make a response in advance to avoid UPS, system failure.
- Unique and efficient air duct design with high speed fans for each module and cabinet, ensure the batteries have excellent heat dissipation performance.



Simpler and cost saving:

- Long cycle lifespan, cycle time can be up to 5000 times.
- Saving 70% footprint than lead-acid battery.
- Smart BMS system, saving 80% routine O&M costs.
- 15 years service life, 3~5 times more than lead-acid battery.



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Application

- UPS
- Data Center

Specifications

Basic Specification

Nominal Voltage	512V(±256V)
Nominal Capacity	100Ah
Energy	51.2KWh

Charging

Maximum Charging Voltage	552V
Maximum Charging Current	100A

Discharging

Voltage Range	448V~552V
Maximum Continuous Discharging Current	400A
Cut-off Voltage	448V~464V

Battery Module

Nominal Voltage	64V
Nominal Capacity	100Ah
Quantity	8

Others

Fire Protection	Battery module-level and Cabinet-level
Protection	Over temperature, Over current, Short circuit, Over charge/discharge, etc.
Communication Interface	CAN, RS485, Dry contacts
Temperature	Charging: 0~45°C, Discharging: -20°C~60°C
Dimension (W*D*H)	600*1000*2000mm
Weight	950±90KG

Benefits:

Manufacturing Excellence:

- 20 years of system integration experience.
- 20 years of lead-acid battery manufacturing experience.
- 10 years of experience in lithium battery manufacturing.

Saves Money:

- Saves frequent replacement cost.
- Save transportation and installation costs.
- Up to 40% total cost of ownership savings.

Reduce Risk:

- 24hrs x 7days BMS monitoring.
- Fire extinguisher module.
- Battery module and cabinet cooling system.

Save Space:

- Up to 70% smaller.
- Up to 60% lighter.

Lithium Cell

High-voltage series batteries are square batteries of first-line brands, with light weight, stable performance and high energy density.

Grade A cells: High energy density design, quality assurance.

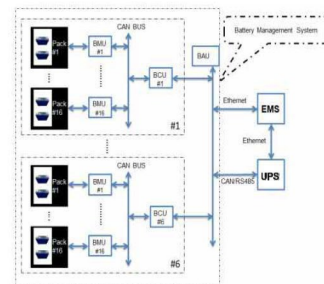
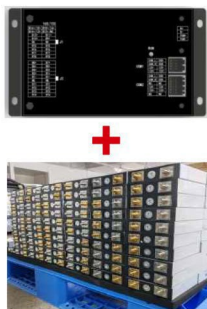
Discharge rate: 1C~8C.

Strict grouping: Ensure consistency.

Lithium Module

Whole integrated storage system with both lithium modules and BMS, quite convenient in both maintenance and installation, extendable to large scale, 19-inch standardized module.

- Customized system with flexibility.
- Wide range of voltage and capacity.
- Modular design for easy installation.
- Integrated with BMU.



Three-level management

Intelligent Management System

Monitoring:

- Cell voltage and temperature.
- Charge and discharge current.
- Total battery cluster voltage.
- SOC & SOH.
- Communication status.
- Cell & battery module balancing.

Protection:

- Over or under temperature & voltage.
- Short circuit or communication failure.
- Over current of charge or discharge.