High Voltage Lithium Battery System Backup Power

CNLP512100-H



Lithium iron phosphate technology

Long cycle lifespan, cycle time can be up to 5000 times

Built in cabinet fire extinguishers, strong security

Smart BMS system, saving 80% routine O&M costs

Three-level BMS system ensures reliability

15 years service life 3-5 times more than lead-acid battery

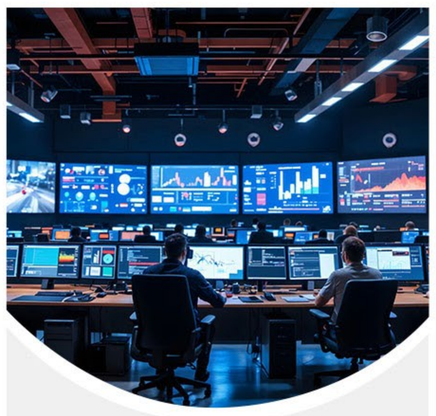
Product Advantages



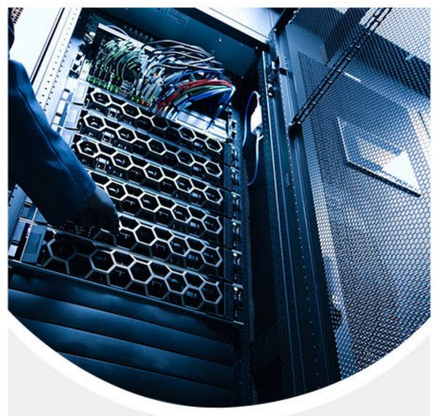
Rail Transit



Remote Security System



Command Center



Server Backup Power

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:

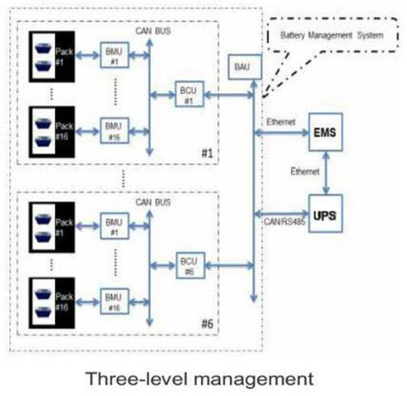
- Up to 70% smaller
- Up to 60% lighter

Lithium Module

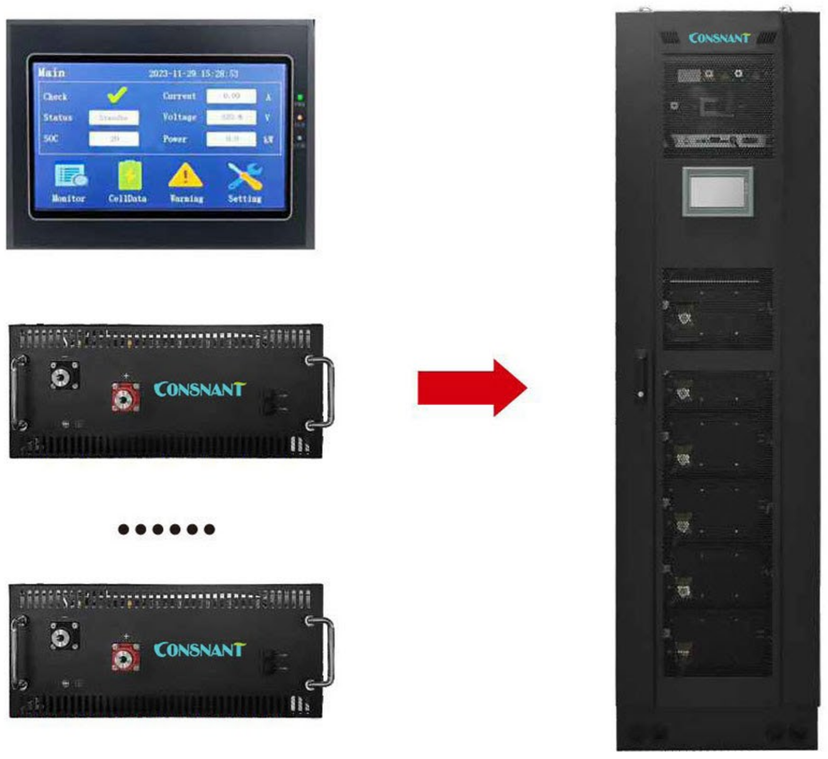
Whole integrated storage system with both lithium modules and BMS, quite convenient in both mainte nance and installation, extendable to large scale,19-inch standardized module

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





Three-level management



Lithiium 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

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

Technical Parameters

CNLP Series	
Model	CNLP512100-H
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℃, Discharging： -20℃~60℃
Dimension (W*D*H)	600*1000*2000mm
Weight	950±90kg