

LiFePO₄ 48V200Ah for Home Energy Storage

Features of LiFePO₄ Battery

- **Longer Cycle Life:** Offers up to 10 times longer cycle life and 5 times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A "drop in" replacement for lead acid battery.
- **Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintain high energy capacity.
- **Wider Temperature Range:** -10°C~55°C.
- **Superior Safety:** Lithium iron phosphate chemistry eliminates the risk of explosion or combustion due to high impact, over charging or short circuit situation.
- **No Memory Effect:** Support unstable partial state of charge (UPSOC) (charge/discharge) utilization.

Product Photo



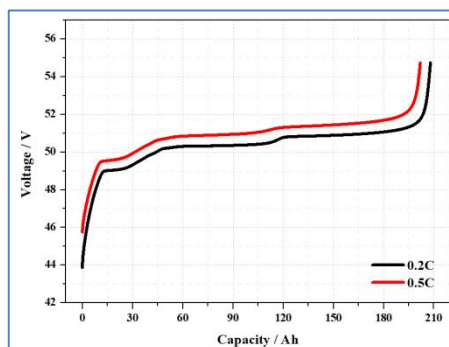
● NE-48D200-WP

Functions of Battery

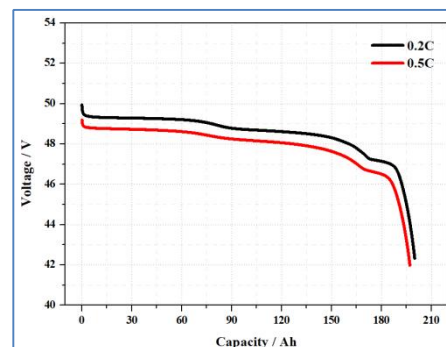
- OVP, UVP, OTP, OCP, SCP.
- Self-management on charging and discharging, single cell balancing function.
- Supports communication with mainstream inverters over RS485/CAN.
- Intelligent design, supports battery upgrade over RS232 software.
- Colorful LCD, displays battery information.

Qualifications

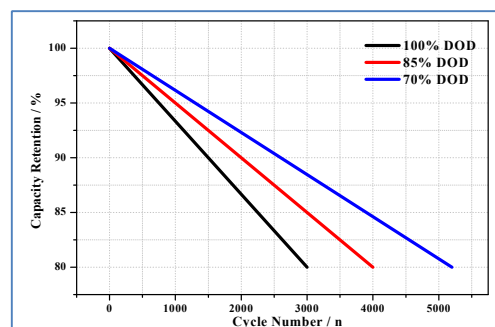
- 20 years professional experience on lithium ion battery power designing, manufacturing, sales.
- Passed ISO9001, ISO14001, ISO45001, UL1642, CE, ROHS, IEC62619, IEC62620, UN38.3
- Battery cell cost advantage



Charge curves at different C-Rate @25°C



Discharge curves at different C-Rate @25°C



Life cycle at different DOD

Model		H48200WM
General Data		
Nominal Voltage	48V	
Nominal Capacity	200Ah	
Energy	9600Wh	
Internal Resistance(ACR)	≤30mΩ	
Cycle Life	≥3000 cycles	
Design Life	≥10 years @25℃	
Self-Discharge (30 days)	≤5% @25℃	
Efficiency of Charge	≥98%	
Efficiency of Discharge	≥100% @0.2C	
	≥96% @0.5C	
Charge Mode	0.2C to 54V, then 54V charge current to 0.02C (CC/CV)	
Max. Continuous Charge Current	100A	
Max. Continuous Discharge Current	100A	
Discharge Cut-off Voltage	≤43.5V	
Water Dust Resistance	IP21	
Case	Iron (Insulation painting)	
Dimensions (H*W*D) (excluding hanger and handle bar)	780*510*185mm	
Max. Weight	≤105kg	
Min. Gravimetric Specific energy	≥92Wh/kg	
Operating Environment		
Charge Temperature Range	0℃~45℃	
Discharge Temperature Range	-10℃~55℃	
Optimum Operation Temperature	10℃~35℃	
Storage Temperature	-10℃~35℃	
	≤85% Relative Humidity	
General Functions		
Parallel Communication	2*RS485	
Battery with Inverter Communication	1*RS485/1*CAN	
Battery Debugging Communication	1*RS232	
Dry Contact	PIN1 to PIN2:Normally open, closed during low power PIN3 to PIN4:Normally open, closed during fault protection	
SOC Light	6 * LED	
Charge Current limit	When the charging current exceeds the set value, turn on the current limit and limit the current to 20A	
Optional Functions		
LCD Screen	<input checked="" type="checkbox"/> Yes Displays the total voltage pack, cell voltage, temperature, BMS status, etc.	
	<input type="checkbox"/> No	
Anti-theft function	<input type="checkbox"/> Yes Keep the vibration for more than 1 minutes to turn on anti-theft	
	<input checked="" type="checkbox"/> No	
Buzzer	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	