

LiFePO₄ 48V200Ah for Home Use

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



•T48200-5U

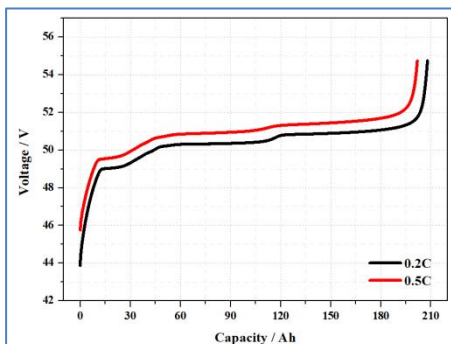
The picture is slightly different from the real object, please take the real object as the standard.

Functions of Battery

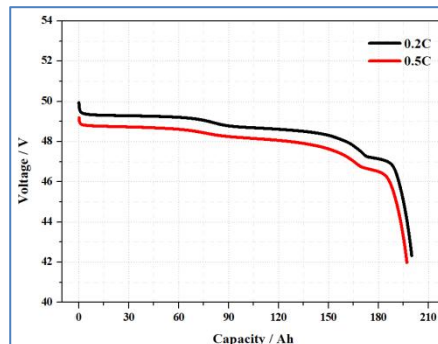
- OVP, UVP, OTP, OCP, SCP.
- Self-management on charging and discharging, single cell balancing function.
- Supports communication with equipment over RS485.
- Intelligent design, supports battery upgrade over RS232.
- Colorful LCD, displays battery information

Qualifications

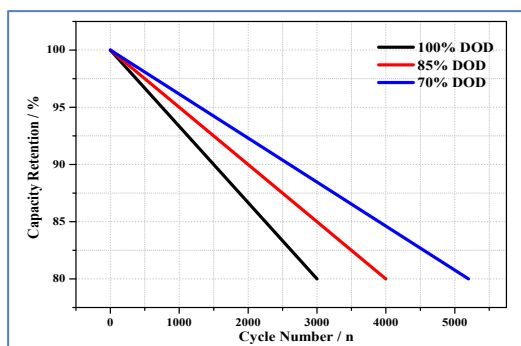
- 20 years professional experience on lithium ion battery power designing, manufacturing, sales
- Passed ISO9001, ISO14001, ISO45001, UL1642, CE, ROHS, IEC62619, IEC62620, UN38.3
- Battery cell cost advantage



Charge curves at different C-Rate @25°C



Discharge curves at different C-Rate @25°C



Life cycle at different DOD



Model		T48200-5U	
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 (W*D*H) (excluding hanger and handle bar)		442*540*222mm	
Max. Weight		≤90kg	
Min. Gravimetric Specific energy		≥107Wh/kg	
Parallel in maximum		15pcs	
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		RS485	
Battery with Equipment		RS485	
Battery Debugging Communication		RS232	
SOC Light		4 * 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		☒ Yes Displays the total voltage pack, cell voltage, temperature, BMS status,etc	
		☐ No	
Gyroscope anti-theft		☐ Yes Keep battery tilt more than 15° to turn on anti-theft	
		☒ No	
Buzzer		☐ Yes ☒ No	
Dry Contact		☐ Yes PIN1 to PIN2:Normally open, closed during low power PIN3 to PIN4:Normally open, closed during fault protection	
		☒ No	