

Lithium Iron Phosphate (LiFePO4) Battery, the longest life among battery field.

Voltage: 12V, 24V, 48V

Capacity: upto 12V200Ah, 24V100Ah, 48V100Ah.

Designed floating service life: over 20years @25

Cyclic usage: 100%DOD, >2000 cycles

80%DOD, >3000 cycles

Features

Due to the demand for energy saving strategies, CPSY delivers a full range of battery power systems with multiple nominal voltages (12V/24V/48V/240V/etc.).

It is smaller in size and lighter in weight, but it has longer cycle life, temperature durability is stronger, and energy storage is more efficient. With the accurate and reliable battery management system (BMS), our lithium battery power system is a better solution for achieving highest efficiency and reliability. After years of practice, we have the most extensive experience in backup power supply in the industry, and we will continue to provide the best battery products.

Advantages for LiFePO4 Battery

1. Energy density is high. The volume and weight of lithium battery is 1/3 to 1/4 of the traditional lead acid battery with the same capacity.
2. Energy conversion rate is 15% higher than that of a traditional lead acid battery, the advantage of energy saving is obvious. Self-discharge rate < 2% per month.
3. Broad temperature adaptability. Products perform well at a temperature of -20°C to 60°C, without air conditioning system.
4. Cycle durability for a single cell is 2000 cycles, which is 3 to 4 times more than the cycle durability of a traditional lead acid battery.
5. Higher discharge rate, faster charging and discharging. When there is a need for backup power supply for a period of 10 hours or less, we could reduce up to 50% of the capacity configuration, comparing to lead acid battery.
6. High security. Our lithium battery is safe, electrochemical materials are stable, no fire or explosion under extreme conditions such as high temperature, short circuit, drop impact, piercing, etc
7. Optional LCD digital display. Optional LCD digital display can install in the front panel of battery and show battery voltage, capacity, current information, etc.

BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short detection function
- Balance function
- Temperature protection

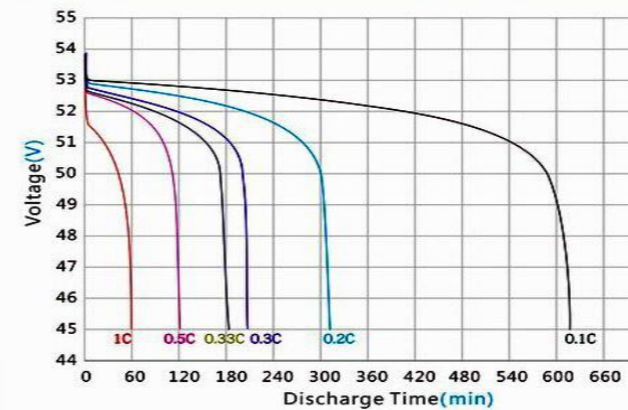
Application

- Electric Vehicles, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting and so on

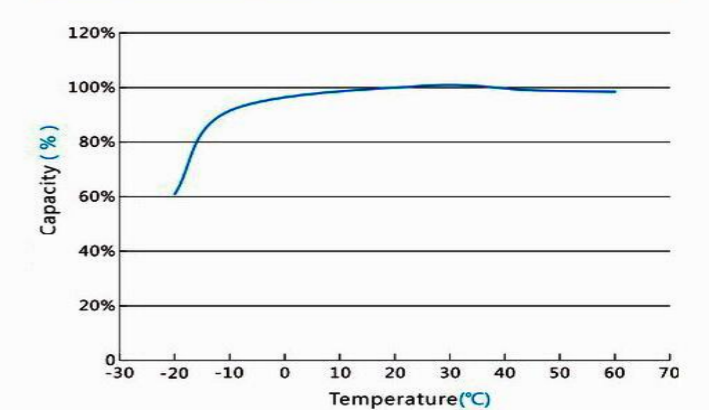
| Model NO. | Nominal Voltage (V) | Rated Capacity(AH) 43.2V/25°C | Dimensions(mm) | | | Weight |
|-----------|---------------------|----------------------------------|----------------|-------------|--------------|--------|
| | | | Length mm | Width mm | Height mm | |
| LFP4810 | 48 | 10 | 442 | 330 | 44 | 9 |
| LFP4820 | 48 | 20 | 442 | 320 | 88 | 15 |
| LFP4830 | 48 | 30 | 442 | 310 | 132 | 20 |
| LFP4840 | 48 | 40 | 442 | 385 | 132 | 25 |
| LFP4850 | 48 | 50 | 442 | 385 | 132 | 28 |
| LFP4860 | 48 | 60 | 442 | 385 | 155 | 33 |
| LFP4880 | 48 | 80 | 442 | 385 | 177 | 39 |
| LFP48100 | 48 | 100 | 442 | 385 | 221 | 49 |



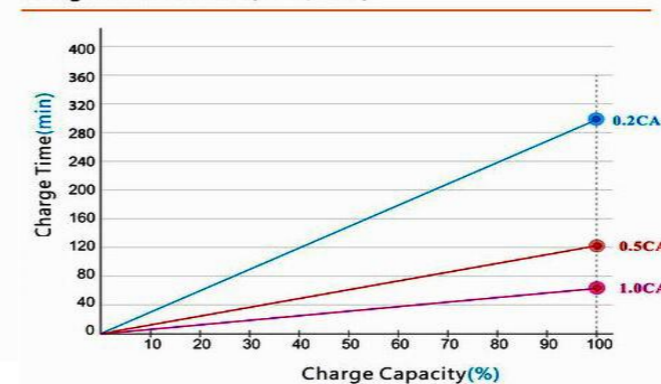
Discharge Characteristic of 48V Battery Group(25°C)



Capacity Effected by Temperature Characteristic



Charge Characteristic(25°C/77°F)



Cycle life with Depth of Discharge Characteristic

