

Lithium Iron (LiFePO₄) Battery

ALFP-48200H(51.2V 200Ah)

Features

Longer Cycle Life: Offers up to 10 times longer cycle life and five times longer float/calendar life than lead acid battery, helping it 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 batteries.

Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

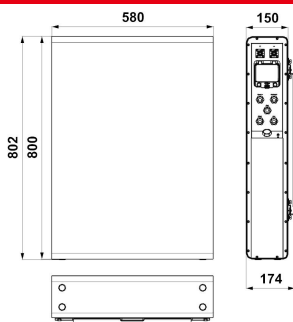
Wider Temperature Range: -20 ~ 60°C

Superior Safety: Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.

Multi Protocol: The battery work well with multiple brands of inverters.



Dimension-mm



Application

- Indoor/outdoor telecom base stations
- Household energy storage system
- Smart transportation backup power supply

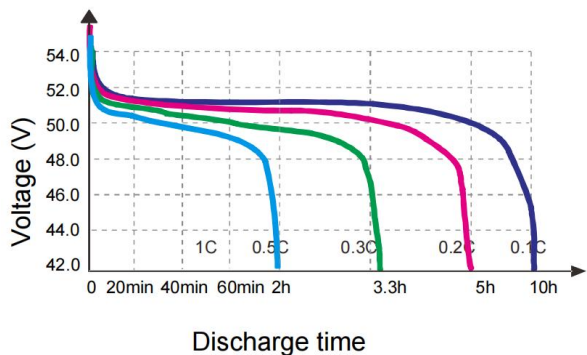
Specification

| | | |
|--------------------------|----------------------------|----------------------|
| Basic Parameters | Rated Voltage | 51.2V |
| | Rated Capacity | 200Ah |
| | Rated Energy | 10240wh |
| | Combination Method | 16S2P |
| | Cycle Life | ≥6000 cycles @80%DOD |
| | Self Discharge | 1%/months |
| | Efficiency of Charge | ≥97% |
| | Efficiency of Discharge | ≥98% |
| Charge | Charge Voltage | 57.6V |
| | Charge Current (Recomm.) | 40A |
| | Charge Current (Max.) | 200A |
| Discharge | Discharge Cut-off Voltage | 43.2V |
| | Discharge Current(Recomm.) | 100A |
| | Pulse Current | 220A (3S) |
| Environment | Charge Temperature | 0°C to 60°C |
| | Discharge Temperature | -20°C to 60°C |
| | Humidity | 5% to 95% |
| Physical Characteristics | IP Class | IP 65 |
| | Case Materia | Metal |
| | Dimensions (mm) | 800*580*150mm |
| | Weight (kg) | 97kg |
| | Others(optional) | WIFI, Bluetooth |

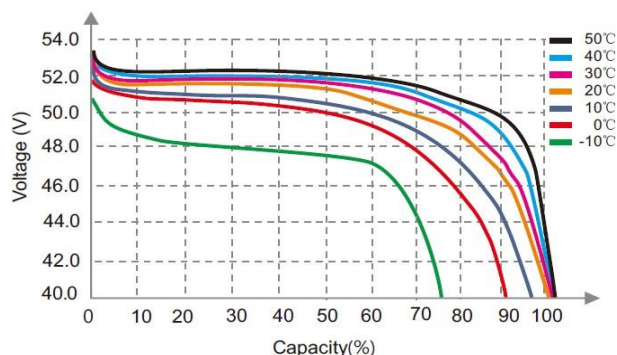
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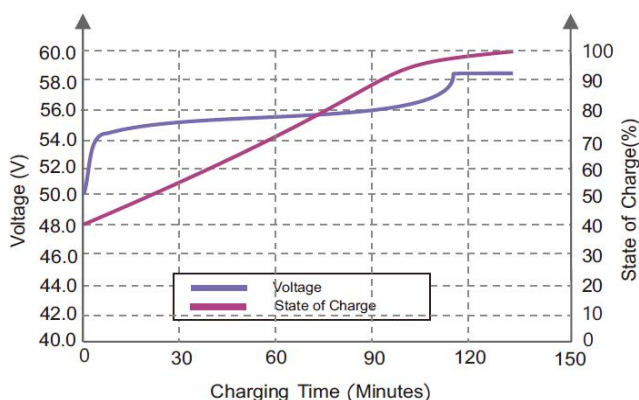
Different Rate Discharge Curve (25°C)



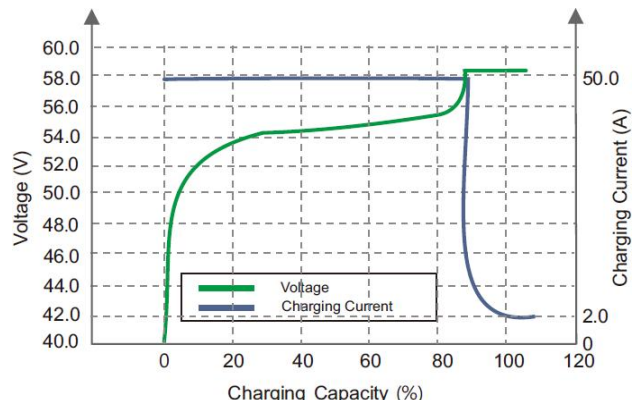
Different Temperature Discharge Curve (0.5C)



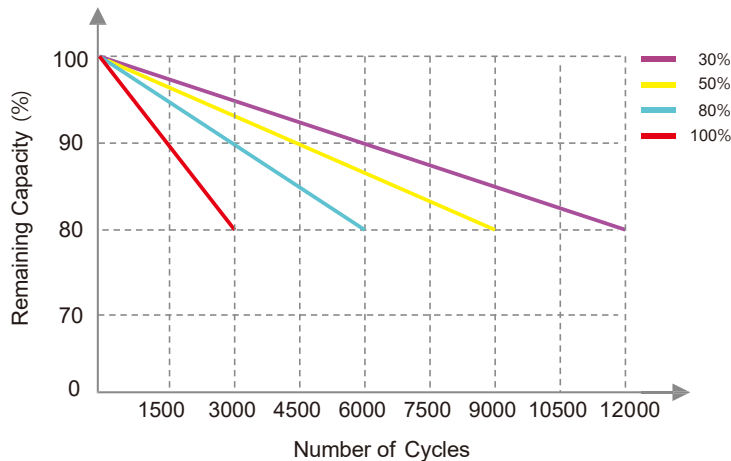
State of Charge Curve (0.5C, 25°C)



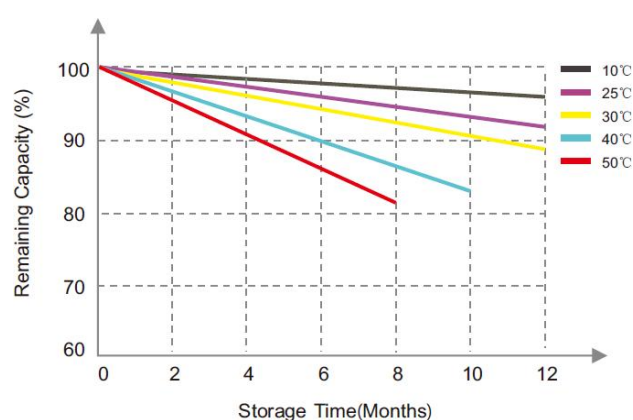
Charging Characteristics (0.5C, 25°C)



Different DOD Discharge Cycle Life Curve (0.5C)



Different Temperature Self Discharge Curve



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