

Lithium Iron (LiFePO₄) Battery

ALFP-1218(12.8V 18Ah)

Features

Longer Cycle Life : Offer 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.

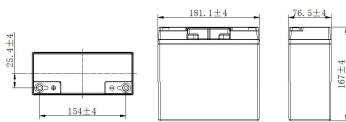
Higher Power : Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

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.



Dimension-mm



Application

- Solar/Wind energy Storage
- Golf cart
- Back-up Power for UPS/EPS
- Tools

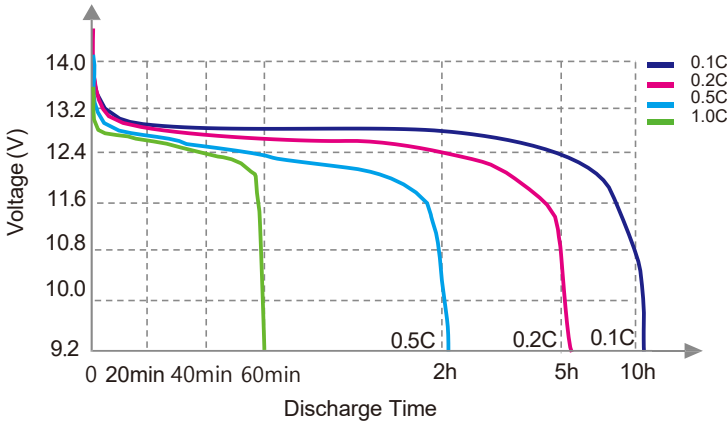
Specification

| | | |
|--------------------------|----------------------------|-----------------------------------|
| Basic Parameters | Rated Voltage | 12.8V |
| | Rated Capacity | 18Ah |
| | Rated Energy | 230.4wh |
| | Internal Resistance (AC) | ≤80mΩ |
| | Cycle Life | ≥2000 cycles @80%DOD |
| | Self Discharge | 1%/months |
| | Efficiency of Charge | ≥97% |
| | Efficiency of Discharge | ≥98% |
| Charge | Charge Voltage | 14.2V |
| | Charge Current (Recomm.) | 9A |
| | Charge Current (Max.) | 18A |
| Discharge | Discharge Cut-off Voltage | 10V |
| | Discharge Current (Max.) | 18A |
| | Pulse Current | 20A (3S) |
| Environment | Charge Temperature | 0°C to 60°C |
| | Discharge Temperature | -20°C to 60°C |
| | Humidity | 5% to 95% |
| Physical Characteristics | IP Class | IP30 |
| | Terminal | M8 |
| | Plastic Case | ABS |
| | Dimensions (mm) | 181*77*167mm |
| | Weight (kg) | 2.2kg |
| | Others(optional) | Bluetooth, Shell color, IP rating |

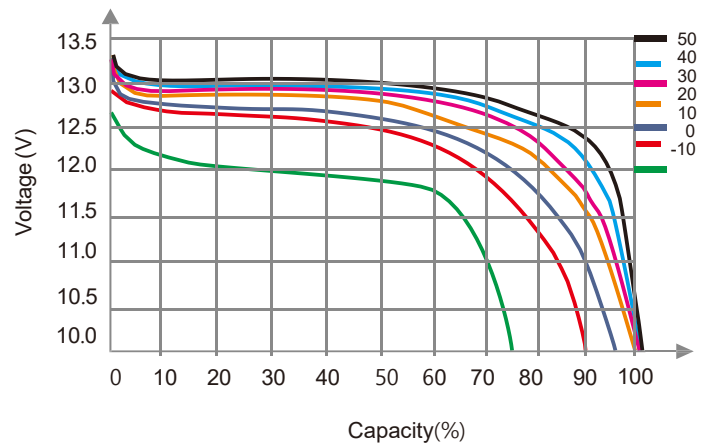
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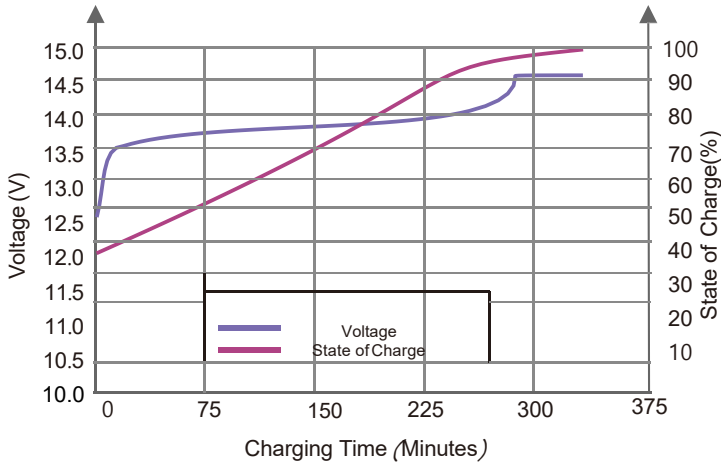
Different Rate Discharge Curve(25°C)



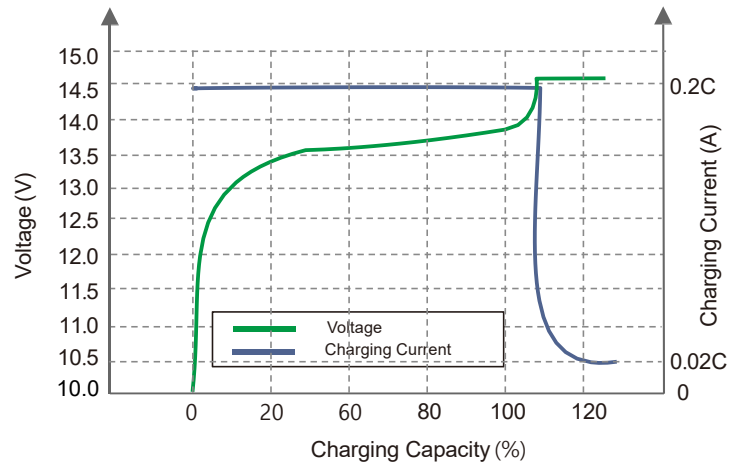
Different Temperature Discharge Curve(0.5C)



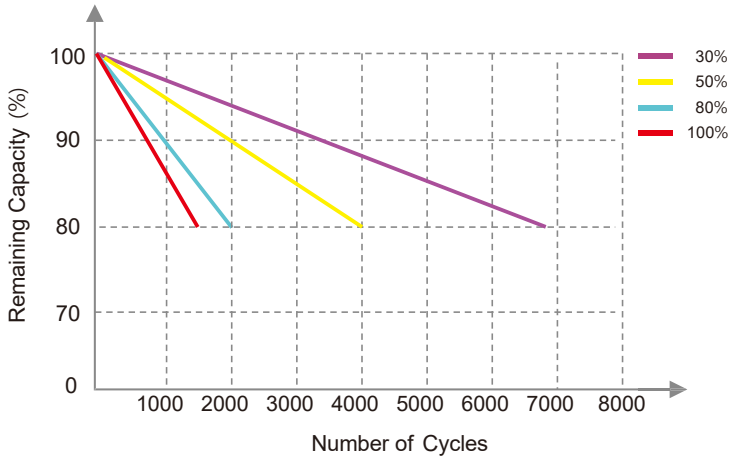
State of Charge Curve(0.2C, 25°C)



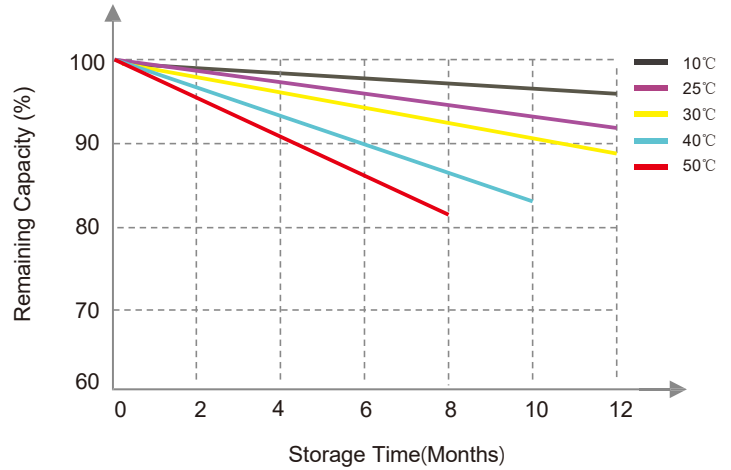
Charging Characteristics(0.2C, 25°C)



Different DOD Discharge Cycle Life Curve



Different Temperature Self Discharge Curve



Add: High-tech Industrial Development Zone,
Yingde City, Guangdong Province, China
Web: www.aokly-battery.com
Email: sales@aokly-battery.com

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