



RAZORBACK LITHIUM

Lithium Iron Phosphate (LiFePO4) Battery

LFP12.8-170

12.8V170AH 2176Wh

Features of LiFePO4 Battery

Longer Cycle Life

LiFePO4 batteries would be is five times than SLA batteries on cycle life

High Power & Light weight

LiFePO4 batteries performance twice power of SLA batteries, while half weight helpful for transport and installation

Intelligent management control

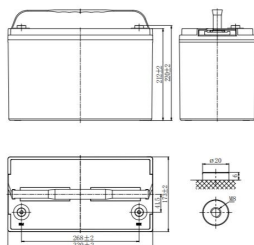
Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition

Lower Self-discharge rate

Lower Self-discharge rate to guarantee LFP batteries be stored more longer than SLA batteries



Physical Dimension



Applications

- Caravan, RV, camping
- UPS (replacement of SLA batteries)
- Marine, golf cart
- Solar, wind system
- PV,solar light

Electrical Characteristics

| | |
|-------------------------|--------------------------|
| Chemistry | LiFePO4 |
| Nominal Voltage | 12.8V |
| Nominal Capacity | 170Ah (C5,25°C) |
| Energy | 2176Wh |
| Internal Resistance | ≤15 mΩ |
| Cycle Life | >2000 cycles @1C 100%DOD |
| Months Self Discharge | <3% |
| Efficiency of Charge | 100% @0.5C |
| Efficiency of Discharge | 96-99% @1C |

Standard Charge

| | |
|------------------------|---|
| Charge Voltage | 14.6±0.2V |
| Charge Mode | 0.2C to 14.6V, then 14.6V,charge current to 0.02C (CC/CV) |
| Charger Current | 85A |
| Max. Charge Current | 150A |
| Charge Cut-off Voltage | 15.6V±0.2V |

Standard Discharge

| | |
|---------------------------|---|
| Rated Discharge Current | 85A |
| Max Discharge Current | 150A |
| Max. Pulse Current | 510A(<3s) |
| Discharge Cut-off Voltage | 10V |
| Charge Temperature | 0 °C to 45 °C (32Fto 113F) @60±25% Relative Humidity |
| Discharge Temperature | -20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity |
| Storage Temperature | 0 °C to 40 °C (32Fto 104F) @60±25% Relative Humidity |
| Water Dust Resistance | IP65 |

Mechanical

| | |
|----------------------|-------------------|
| BMS | 150A 4S/4P |
| Plastic Case | ABS |
| Dimensions (in./mm.) | 330 x173 x 212 mm |
| Weight (lbs./kg.) | 16kg(35.20lbs) |
| Terminal | M8 |



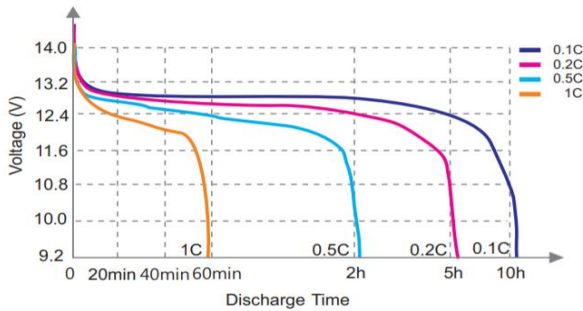
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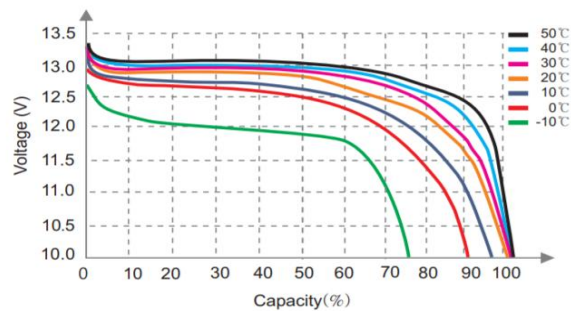
LFP12.8-170

12.8V170AH 2176Wh

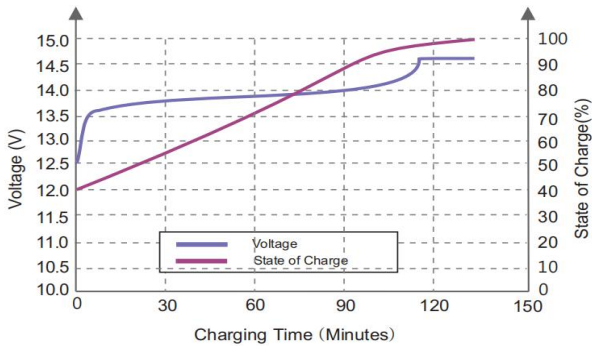
Different Rate Discharge Curve(25°C)



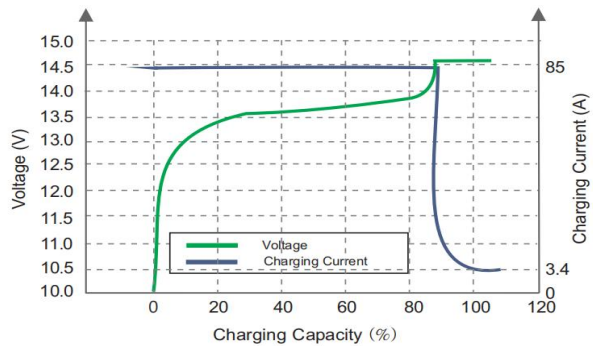
Different Temperature Discharge Curve(0.5C)



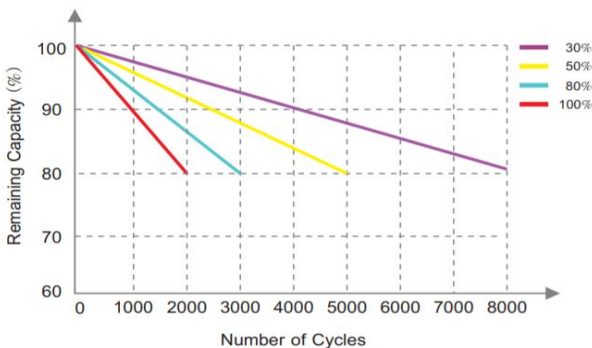
State of Charge Curve(0.5C, 25°C)



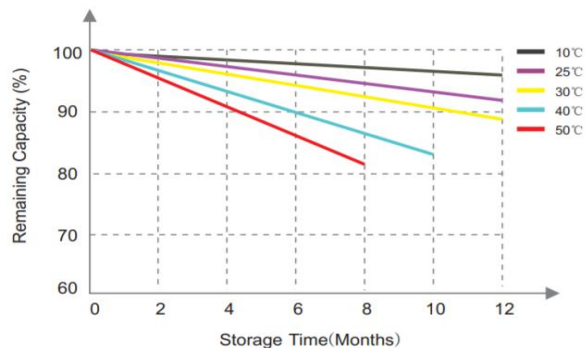
Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve



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