

POWER LITHIUM BATTERIES

Dual Purpose Deep Cycle Starting Lithium Battery

LFP12.8VNS70

Starting / Deep cycle

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

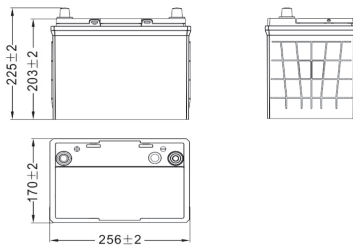
Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition

Lower Self-discharge rate

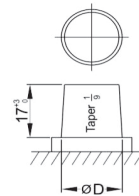
Lower Self-discharge rate to guarantee LFP batteries be stored more longer than SLA batteries



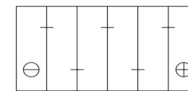
Physical Dimension



Standard Terminal



Cell Layout



Figure(0)

| | | |
|----------------------------|---------------------------------|---|
| Electrical Characteristics | Chemistry | LiFePO4 |
| | Nominal Voltage | 12.8V |
| | Nominal Capacity | 60Ah |
| | Energy | 768Wh |
| | Cold Cranking Amps | 1400CCA |
| | Internal Resistance | ≤2.2 mΩ |
| | Cycle Life | ≥1500 cycles |
| | Self Discharge Rate | ≤30uA |
| | Efficiency of Charge | 100% @0.5C |
| Standard Charge | Efficiency of Discharge | 96-99% @1C |
| | Charge Voltage | 14.6±0.2V |
| | Charge Mode | 0.2C to 14.6V, then 14.6V,charge current to 0.02C (CC/CV) |
| | Rated Charge Current | ≤30A |
| | Max. Charge Current | ≤60A |
| Standard Discharge | BMS Charge Cut-off Voltage | 15.6V |
| | Over Charge Recovery Voltage | 15.2V |
| | Continuous Discharge Current | ≤180A |
| | Instantaneous Discharge Current | 1400A(5S) |
| | BMS Discharge Cut-off Voltage | 8V |
| | Over Discharge Recovery Voltage | 9.2V |
| | Charge Temperature | 0 °C to 45 °C (32Fto 113F) @60±25% Relative Humidity |
| Mechanical | 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 | IP56 |
| | BMS Withstand voltage value | 30V |
| | Plastic Case | ABS |
| Mechanical | Dimensions (in./mm.) | 256*170*201*222mm ± 2mm |
| | Weight (lbs./kg.) | 7.7kg(16.94lbs) |
| | Terminal | Brass |

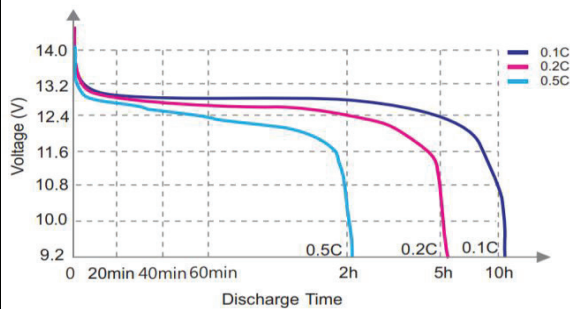
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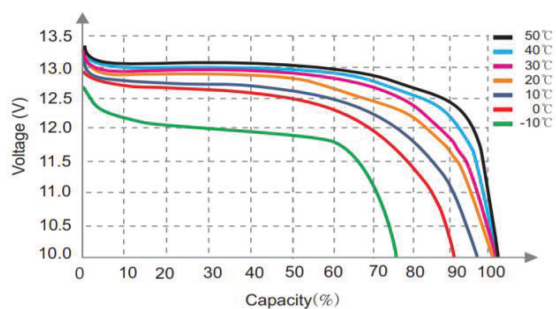
LFP12.8VNS70

Starting / Deep cycle

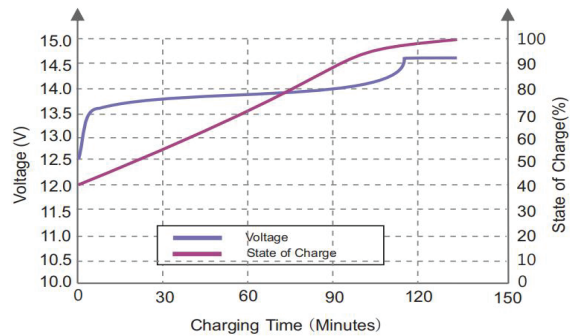
Different Rate Discharge Curve(25°C)



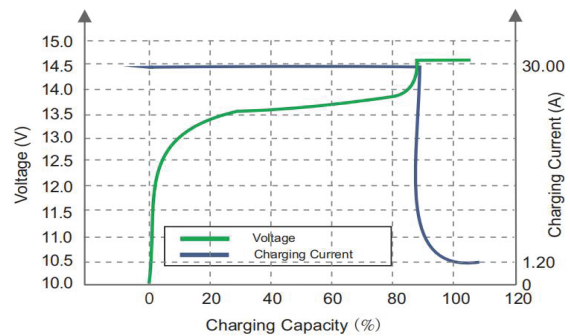
Different Temperature Discharge Curve(0.5C)



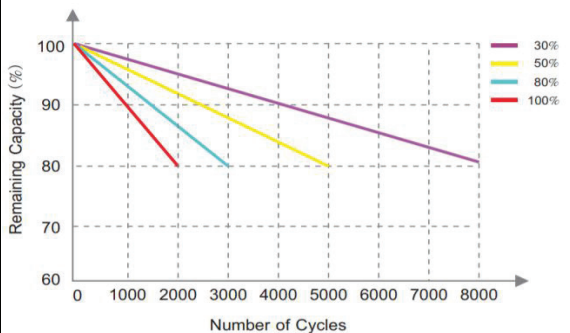
State of Charge Curve(0.5C, 25°C)



Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(0.5C)



Different Temperature Self Discharge Curve

