

R-LFP12.8V135Ah

Lithium Iron Phosphate Battery



SAFETY

- + Prismatic LiFePO₄ cells with higher consistency, longer cycle life and safer chemistry
- + UN38.3, MSDS, CE, EMC for system, UL 1642 for cell

DESIGN

- + ABS container, drop-in replacement for VRLA batteries
- + Fast charge performance.
- + Wide operating temperature range (-20°C to +55°C)
- + Maintenance free

BATTERY MANAGEMENT SYSTEM (BMS)

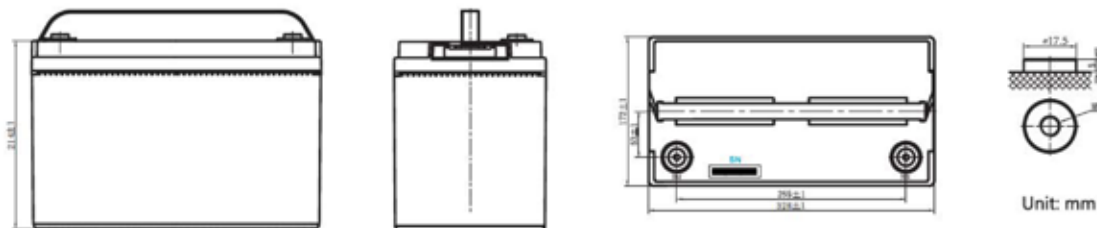
- + Integrated BMS inside
- + Independent protection for charge and discharge
- + Over voltage, low voltage, over temperature and short circuit protection

Applications:

Caravans, RVs, Leisure, Industrial Equipment, Solar



Dimension:

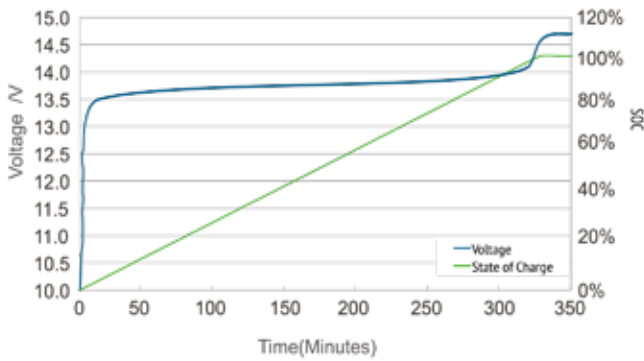


Specification

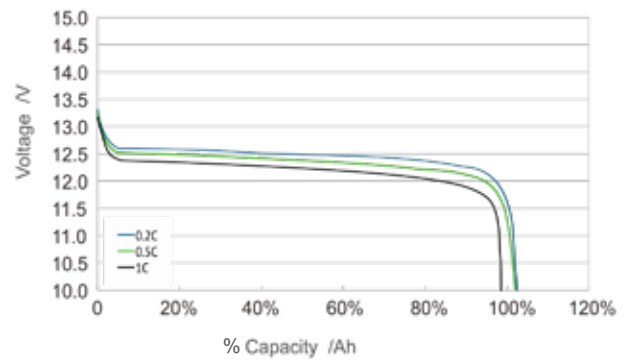
| Part Number | | R-LFP12.8V135Ah |
|----------------------------|---|---------------------|
| Electrical Characteristics | Nominal Voltage [V] | 12.8 |
| | Nominal Capacity [Ah] | 135 (0.33C) |
| | Nominal Energy [Wh] | 1728 |
| | Internal Resistance [mΩ] | <20 |
| | Cycle Life | ≥ 4800 @ 50% DOD |
| | | ≥ 3500 @ 80% DOD |
| | | ≥ 3000 @ 100% DOD |
| BMS | Over charge, over discharge, over and under temperature, short circuit protection, cell balancing | |
| Parallel Support | Max 2 sets | |
| Series Support | Max 4 sets | |
| Standard Charge | Charging Voltage [V] | 14.6 |
| | Max Charging Current [A] | 100 |
| | Recommended Charging Current [A] | 67.5 |
| Standard Discharge | End of Discharge Voltage [V] | 11.2 |
| | Max Discharging Current [A] | 100 |
| | Pulse Discharge Current [A] | 270A @ 10s |
| Environmental | Charge Temperature Range [°C] | 0 ~ 50°C |
| | Discharge Temperature Range [°C] | -20 ~ 55°C |
| Mechanical | Dimension [mm] | 330 * 172 * 214 |
| | Weight [kg] | 14.06 |
| | Case Material | ABS UL94-HB |
| | Material System | LiFePO ₄ |
| | Protection Class | IP65 |
| | Terminal | M8 |
| Designed Calendar Life | 10 years | |

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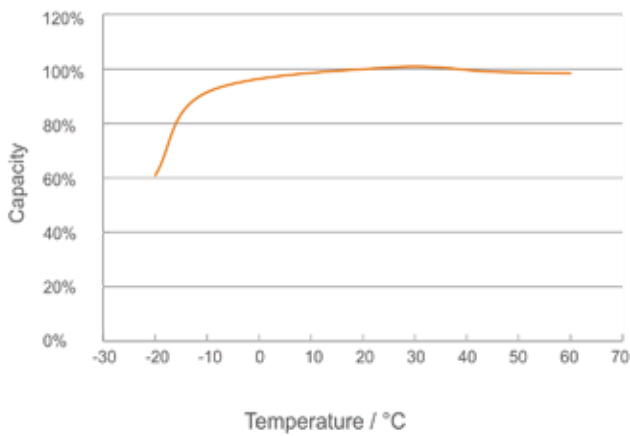
**Charge Voltage and State of Charge (SOC) Curve
0.2C@ 25°C (77°F)**



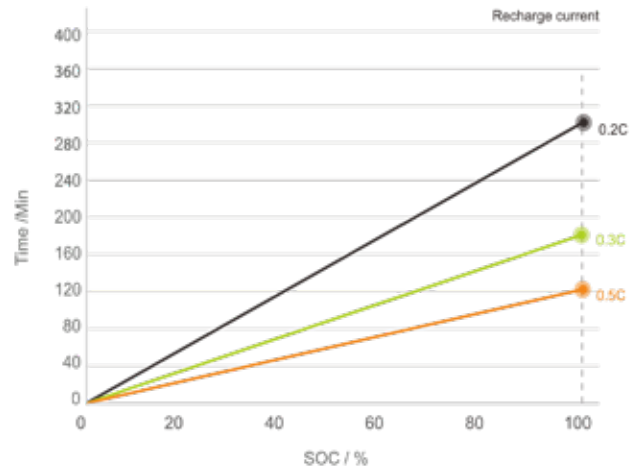
Discharge Voltage Characteristics at Various Rates 25°C (77°F)



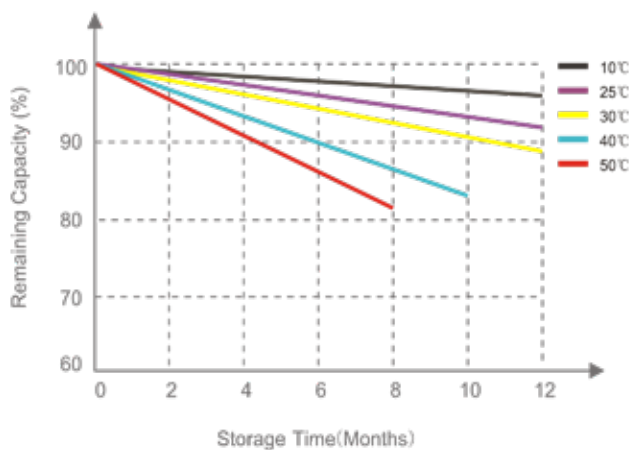
Capacity with Different Temperature



Typical Recharge Time



Different Temperature Self Discharge Curve



Typical Cycle Life

