

## Safety

- Prismatic LFePO<sub>4</sub> cells, Longer cycle life and much more safety.
- IEC62133, UL, UN38.3 certification for cell.
- UN38.3, CE certification for system.
- The cycle life over 3500 times @100%DOD

## Design

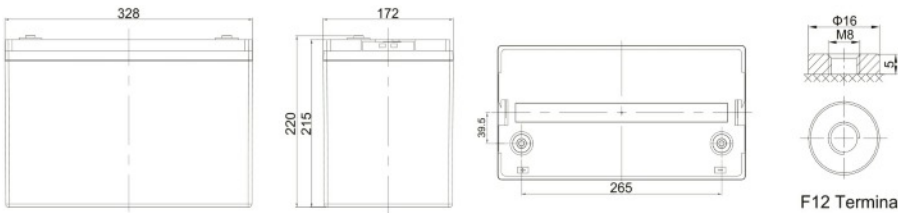
- ABS container, replace VRLA battery perfectly. .
- Fast charge performance,
- -20~+55°C widely temperature range.
- Maintenance free.

## Battery Management System (bms)

- Integrated hardware BMS inside.
- Independent protection for charge and discharge.
- OVP, LVP, OCP, OTP protection.
- For more information, contact with : sales@ritarpower.com



Ritar Lithium Iron Phosphate LiFePO<sub>4</sub> Battery pack with Ritar unique Triple-safety protection with high performance and prominent long life, with 20 times longer cyclic life than SLA battery to save cost and energy, up to 50% lighter than SLA battery to save logistic cost ( Anti-thief system + GPS as optional).



## Specification

| Item Number                  | R-LFP12V120Ah(8010128012001)   |
|------------------------------|--|
| Nominal voltage [V]          | 12.8   |
| Nominal capacity [Ah]        | 100  |
| Total energy [KWh]           | 1.28   |
| Product dimension [W*D*H]    | 330*172*214 mm / 12.99*6.77*8.42 inch                                  |
| Product weight               | 11±0.5 Kg / 26.46 lbs  |
| Max. charging current [A]    | 100  |
| Charge Mode                  | @ 0.2C(A) to 14.6V ,then @14.6V till charge current ≤ 0.05C(A) (CC,CV) |
| Recommend Charge Current     | 20 (0.2C)  |
| Charging voltage [V]         | 14.6   |
| Max. discharging current [A] | 100  |
| End of discharge voltage [V] | 10   |
| Protection class             | IP65   |
| Operating humidity           | 0-95 %RH (No condensing)   |
| Operating temperature range  | Charge: 0 ~ +45 °C / 32 ~ 113°F Discharge: -20 ~ +55 °C / -4 ~ +131°F  |
| Storage temperature range    | -20 ~ +60 °C / -4 ~ +140°F   |
| Communication interface      | /  |
| Cycle Life                   | >3500 <sup>1</sup>   |
| Protection                   | Over voltage , Low voltage Over Temperature, Short circuit             |
| Certification                | UN38.3, CE   |
| Parallels Support            | Support. According to user manual for parallel connection              |
| Series Support               | Support. Max. 4 PCS for 48V  |

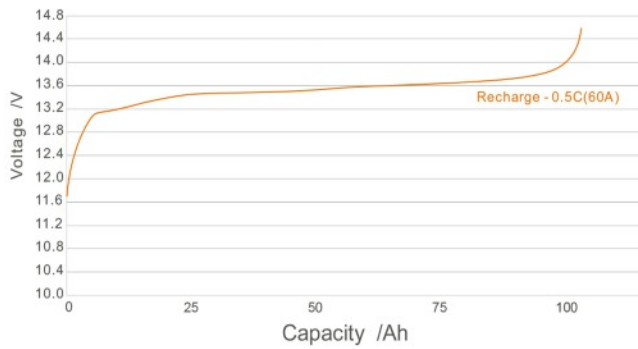
Note:

1. 100% DOD and to 80% of initial capacity

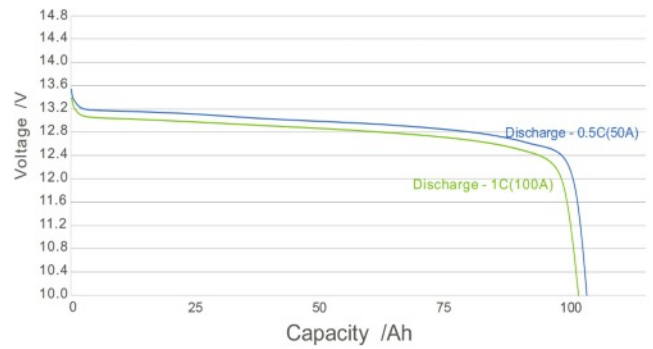
# 12.8V120Ah

(R-LFP12.8V120Ah)

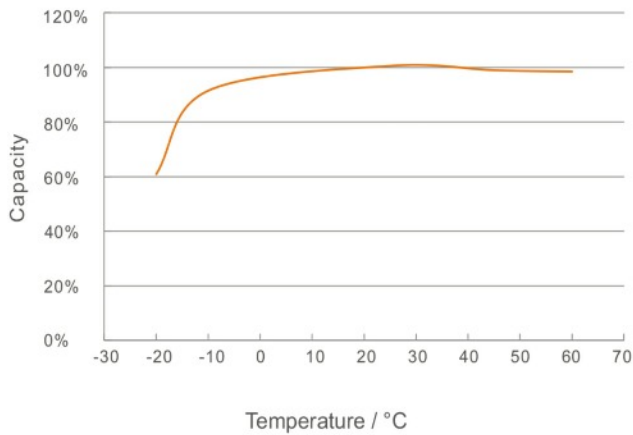
Charging Characteristics(0.5C@25°C)



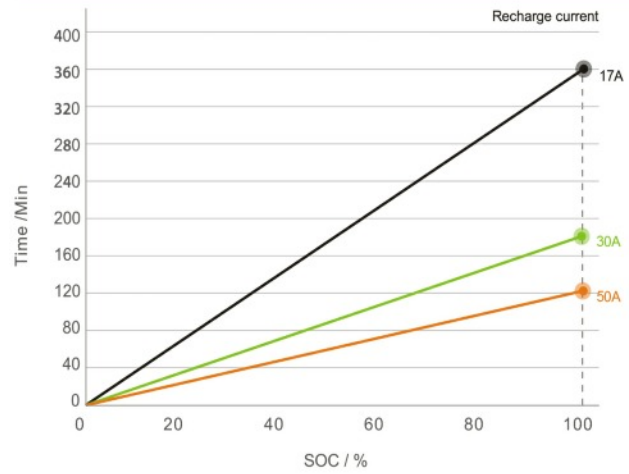
State of Discharge Curve(0.5C, 1C@25°C)



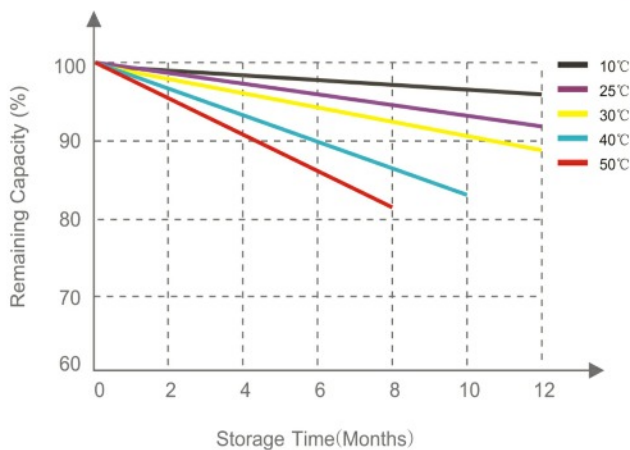
Capacity with Different Temperature



Typical Recharge Time



Different Temperature Self Discharge Curve



Typical Cycle Life

