

12.8V50Ah

LFP LI-ION BATTERY



SAFETY

- + Prismatic LiFePO4 cells (50Ah), High consistency, long cycle life and much more safety.
- + UN38.3, CE certification for system.
- + The cycle life over 3000 times @80%DOD

DESIGN

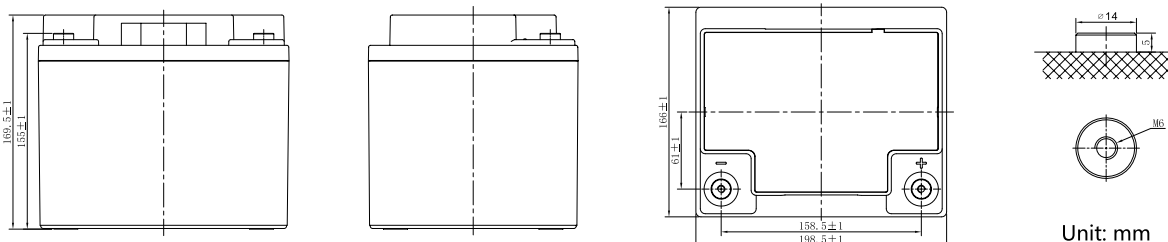
- + ABS container, replace VRLA battery perfectly.
- + Fast charge performance.
- + -20~+55° C widely temperature range.
- + Maintenance free.

BATTERY MANAGEMENT SYSTEM (BMS)

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



Dimension:



Unit: mm

Specification

Part Number	R-LFP12.8V50Ah
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	50
Total Energy [Wh]	640
Max. Charging Current [A]	50
Recommended Charging Current [A]	25
Charging Voltage [V]	14.6
Max. Discharging Current [A]	50
End of Discharge Voltage [V]	11.2
Pulse Discharge Current	100A @ 10s
Dimension [W*D*H, mm]	198*166*169
Weight [Kg]	6.50
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range	Charge: 0 ~ +50 °C ; Discharge: -20 ~ +55 °C
BMS Protection	Over charge Over discharge, Over temperature, Short circuit
Parallel Support	Yes, Max 2 Sets
Series Support	Yes, Max 4 Sets
Cycle Life	>3000
Designed Calendar Life	>10 Years
Certification	UN38.3, CE, MSDS

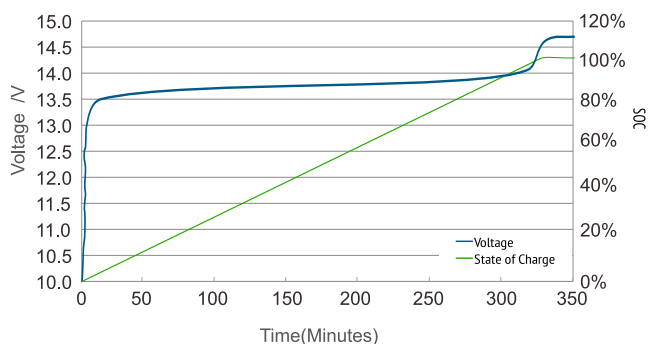
Note:

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

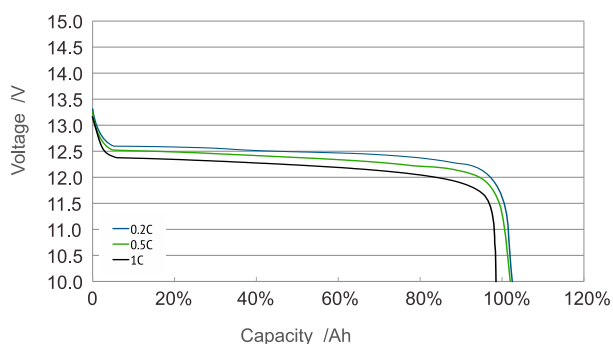


12.8V50Ah (R-LFP12.8V50Ah)

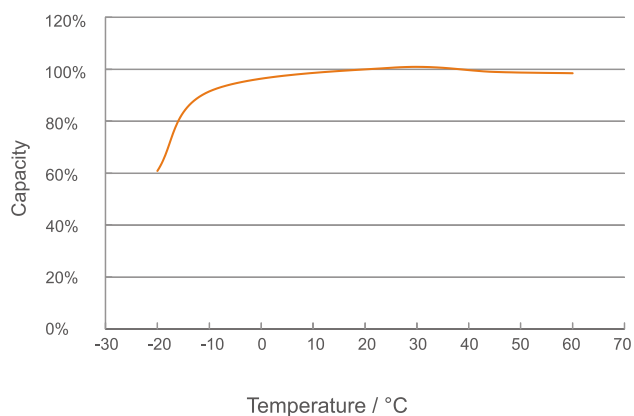
CHARGE VOLTAGE and STATE OF CHARGE(SOC) CHARGE 0.2C@25°C(77°F)



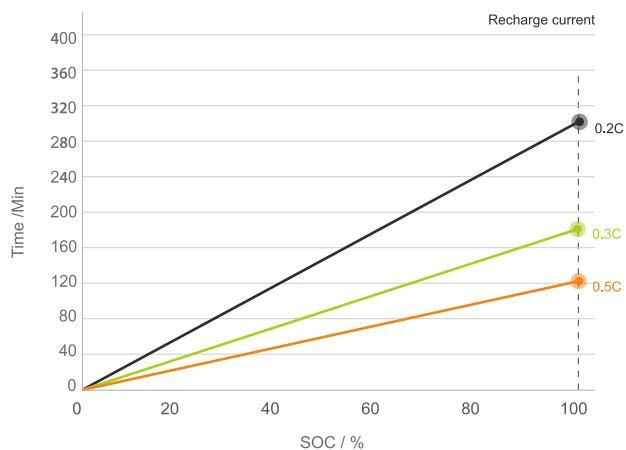
DISCHARGE VOLTAGE CHARACTERISTICS at VARIOUS RATES 25-C(77°F)



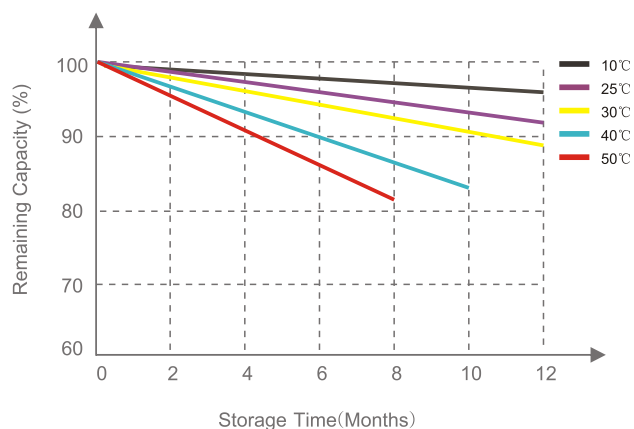
Capacity with Different Temperature



Typical Recharge Time



Different Temperature Self Discharge Curve



Typical Cycle Life

