

## SunRays 200Ah Wall/Rack-Mounted Lithium Iron Phosphate Battery



### Advantage:

- 1.Rechargeable and deep cycle: more than 6500+Times cycles
- 2.High quality and high efficient: **GOTION brand A+ grade battery cell**
- 3.Easy to install and maintain
- 4.Energy saving and environmental protection
- 5.Protection level IP20
- 6.Build in intelligent BMS to optimize the performance and safety of the battery
- 7.Display Screen: Cycle Counts, SOC, SOH, Temperature, ....



## Product Introduction:

The product adopts modular design, higher integration, and saves installation space; adopts high-performance lithium iron phosphate cathode material, good battery core consistency, and designed service life of more than 10 years; one-key switch machine, front operation, front wiring, convenient installation Convenient maintenance and operation; diverse functions, over-temperature alarm protection, over-charge and over-discharge protection, short-circuit protection; strong compatibility, can be seamlessly connected with UPS, photovoltaic power generation and other main equipment; various forms of communication interfaces RS485, etc. can be based on Customized according to customer needs to facilitate the flexible use of system remote monitoring. High-energy, low-power lithium battery equipment achieves higher energy supply, lower energy consumption, and reduces environmental pollution; adopts all-round, multi-level battery protection strategies and fault isolation measures to ensure the safe operation of the system.

## Performance characteristics:

- 1.Small size and light weight.
- 2.Maintenance-free.
- 3.Environmental protection and pollution-free materials, no heavy metals, green and environmental protection.
- 4.The standard cycle life exceeds 6500 times.
- 5.Accurately estimate the state of charge of the battery pack, that is, the remaining power of the battery, to ensure that the power of the battery pack is maintained within a reasonable range.
- 6.Built-in BMS management system with comprehensive *protection, monitoring and control functions*.

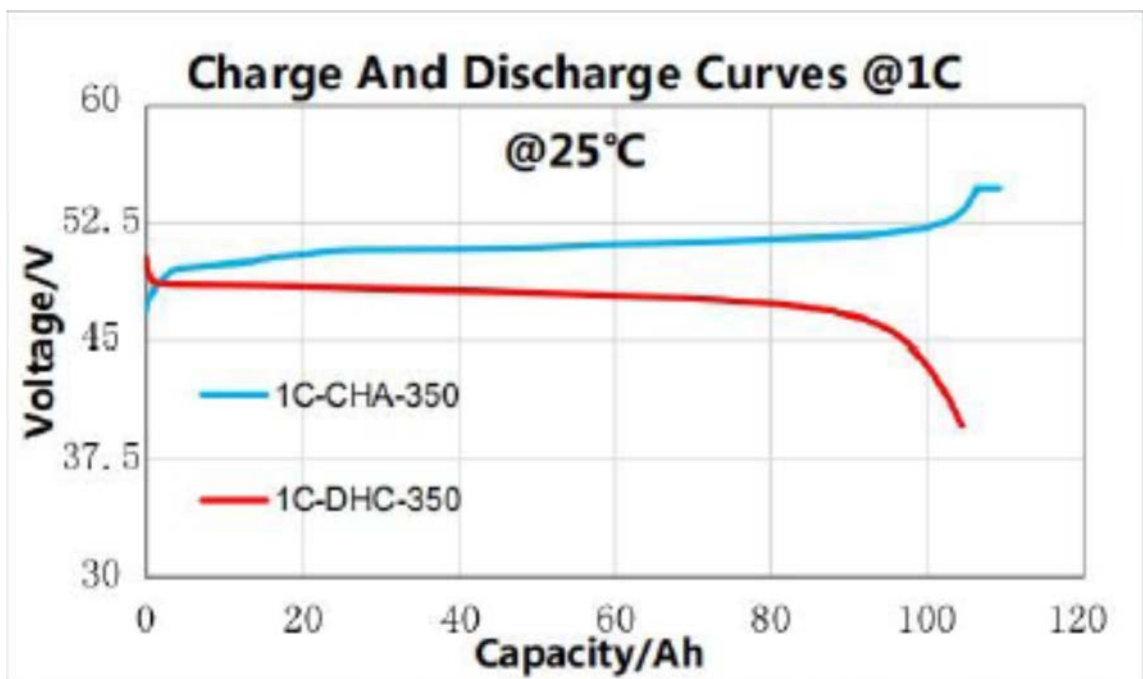
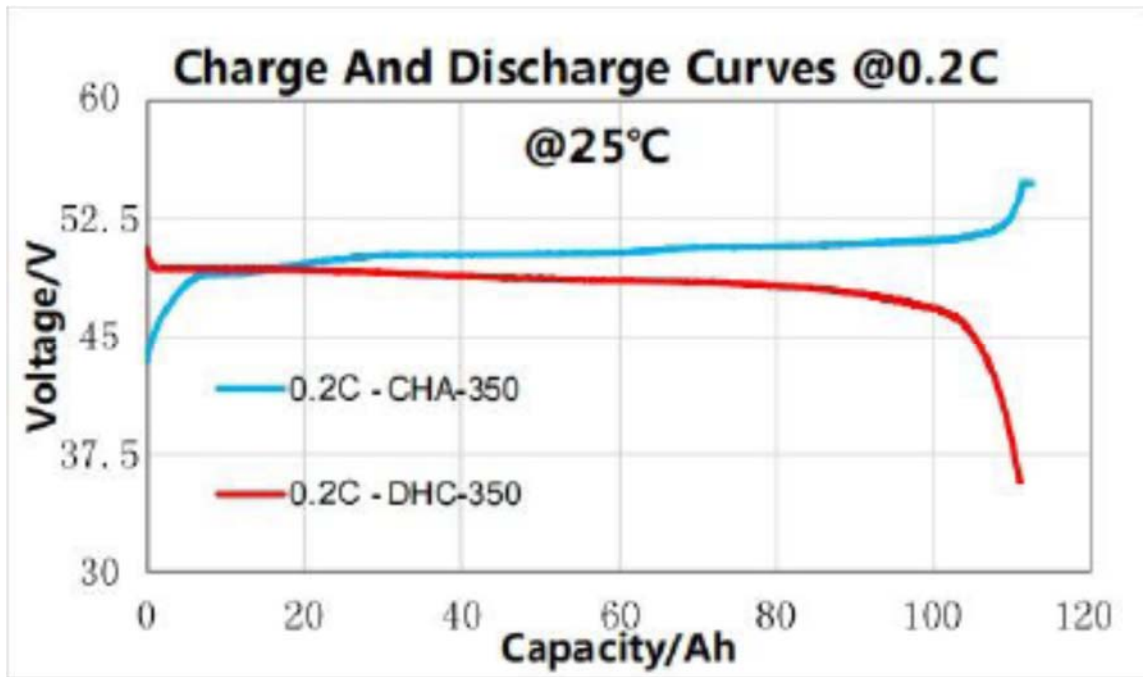
Parameters:

Model	SR48V-200W/R
Nominal voltage (V)	48
Nominal capacity (AH)	210
Working voltage range	42-56.25
Recommend charging volt (V)	54.5
Recommend discharging cutoff volt (V)	45
Working voltage range	42-56.25
Standard charging current(A)	50
Max. Constant charging current(A)	100
Standard discharging current (A)	50
Max. Discharging current (A)	100
Temperature (°C)	-30°C ~ 60°C(Recommend 10°C ~ 35°C)
Allowable humidity range	0 ~ 90% RH
Storage temperature (°C)	-20°C ~ 65°C(Recommend 10°C ~ 35°C)
Protection	IP20
Cooling method	Natural air cooling
Maximum Dimension (W*D*H ) for power wall / Rack	465*680*287 / 510*640*252
Net Weight (KG)	90 KG

## Performance test:

### Nominal Capacity

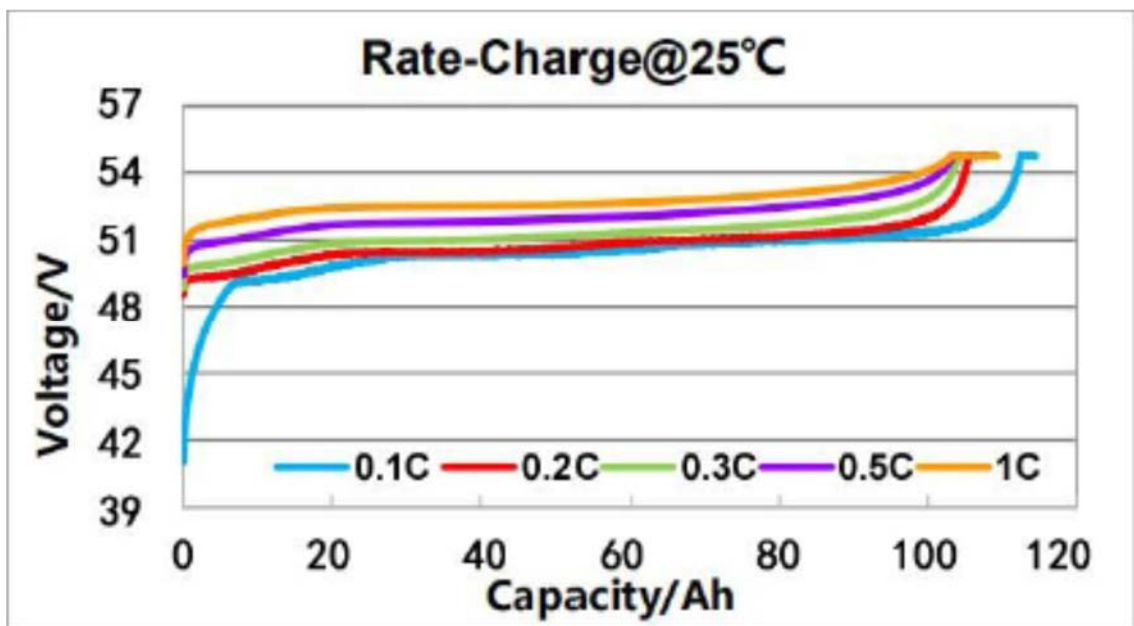
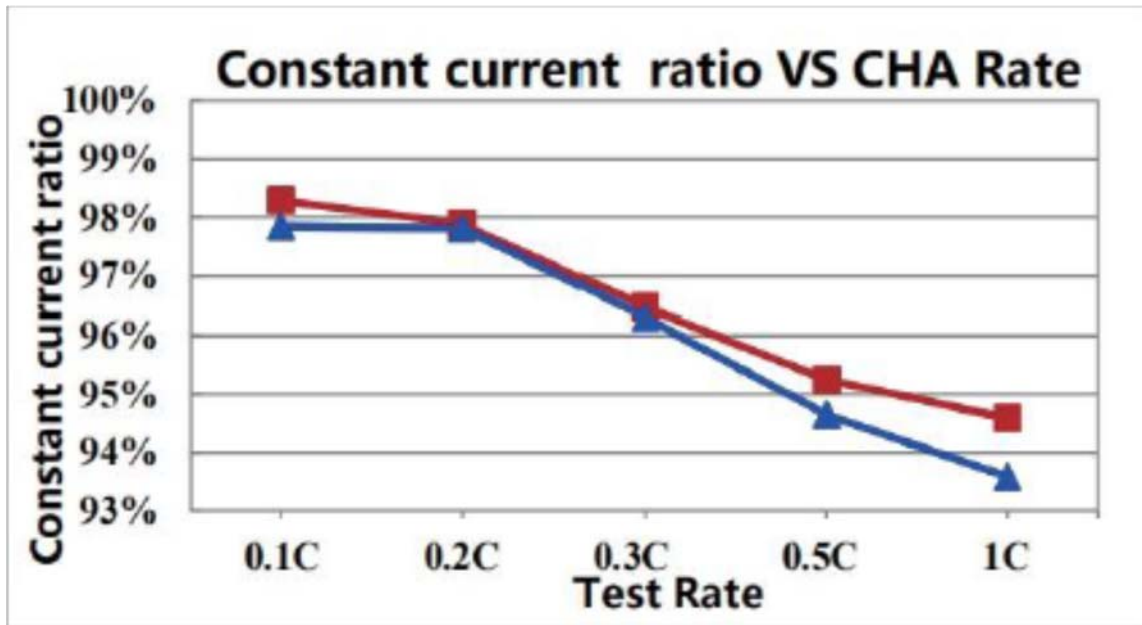
The battery pack is placed in a 25°C environmental chamber, 0.2C constant current and constant voltage to 54.65V, 0.05C cut-off, put it aside for 60 minutes; 1C discharge to 37.5V.

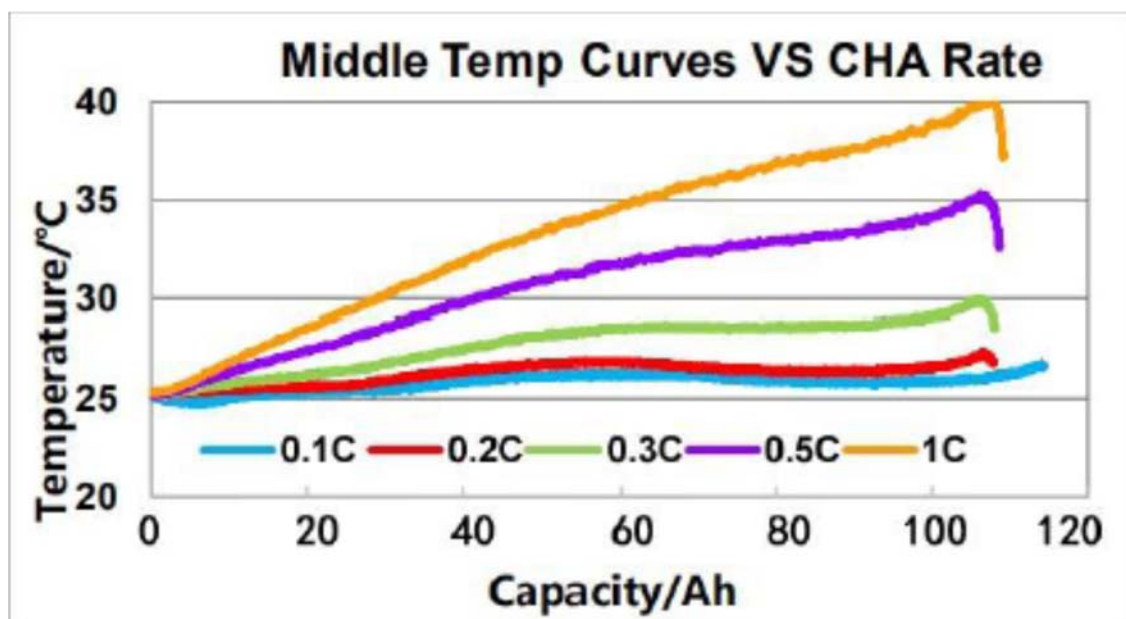


## Rate Charging

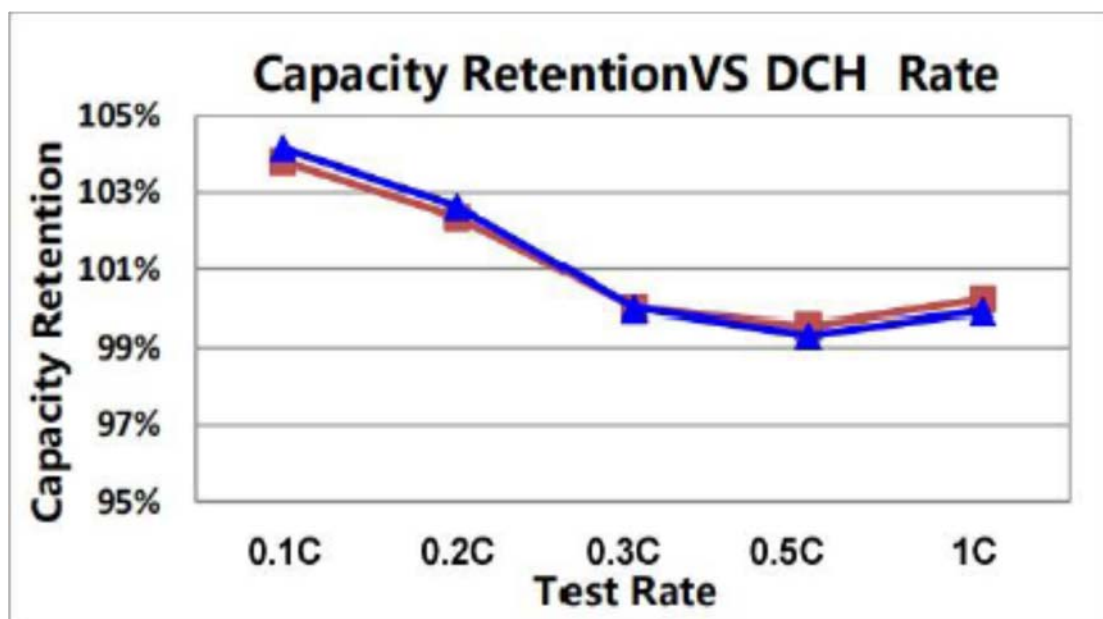
The battery pack are charged at a constant current of 0.1C, 0.2C, 0.3C, 0.5C, and 1C to 54.75V in an environment of 25°C.

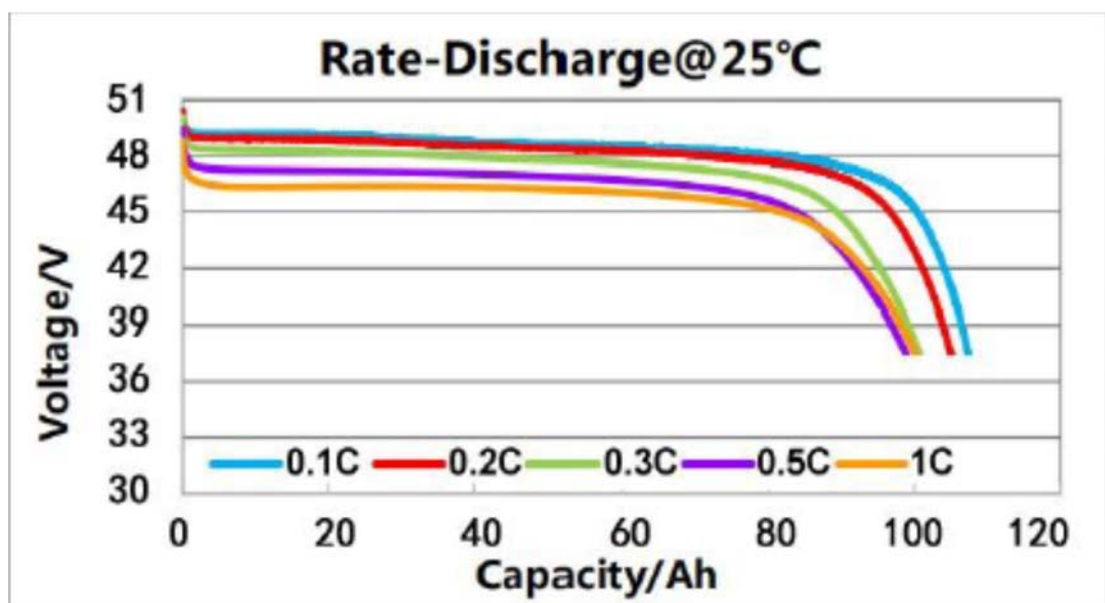
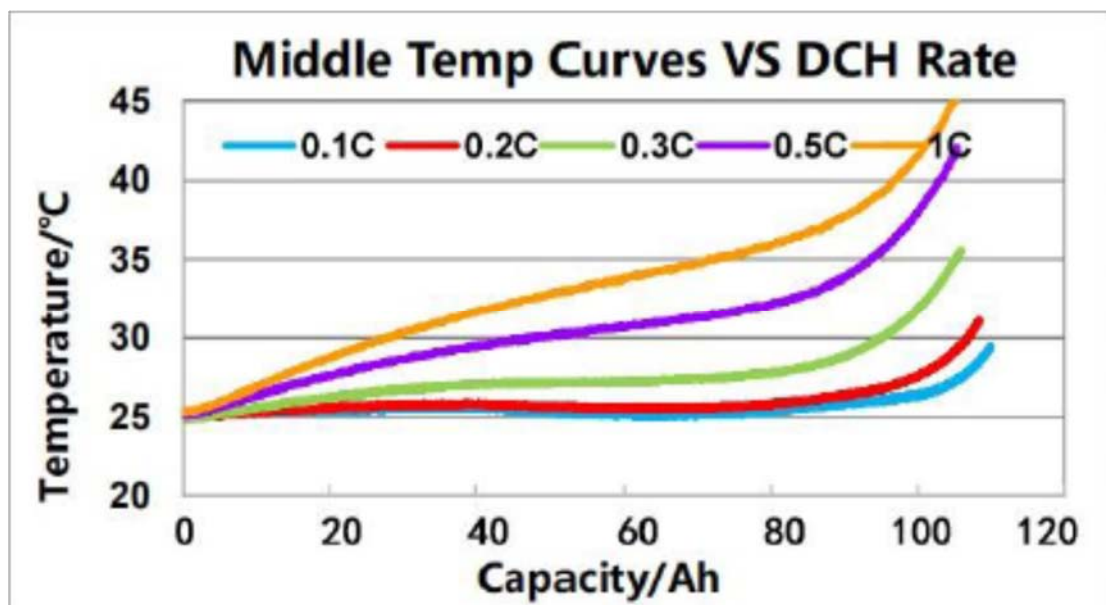
Stop charging after the constant voltage reaches 0.05C, and record the charging test data under different magnifications.





Rate Discharge





## Cycle Performance

### Testing method:

25°C, 0.2C constant current charge to 53.25V, constant voltage to 0.05C cut-off; after 30 minutes of storage, 0.2C discharge Power to 42V, cycle to 80% SOC cut-off;

