

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.*

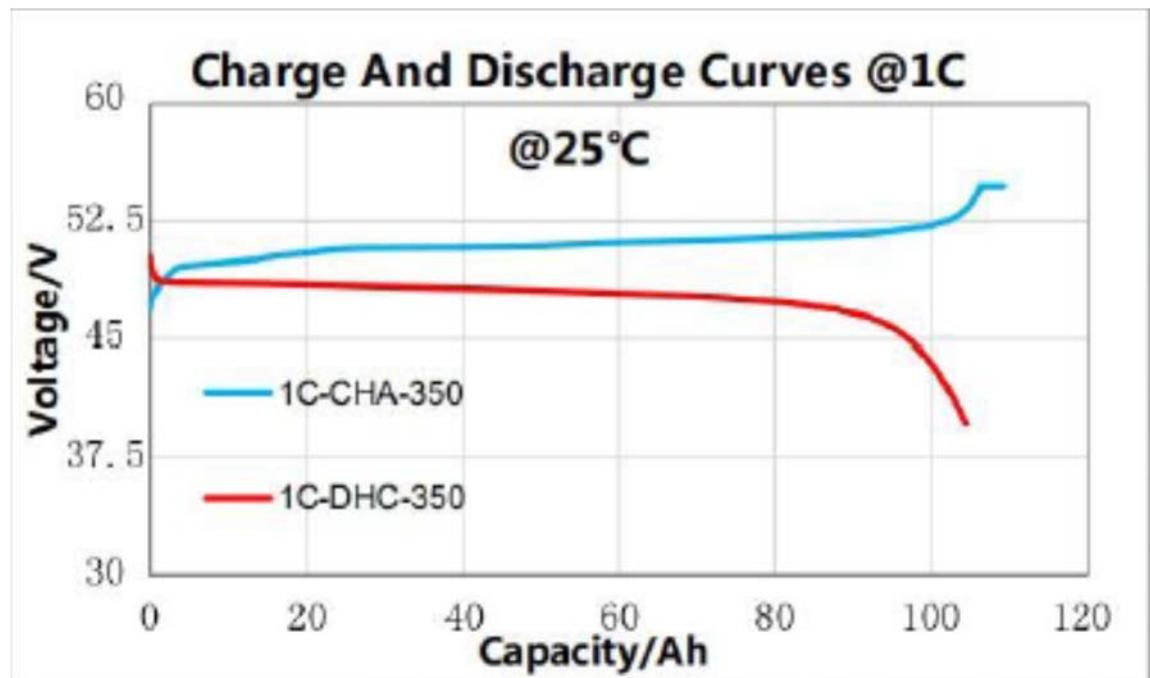
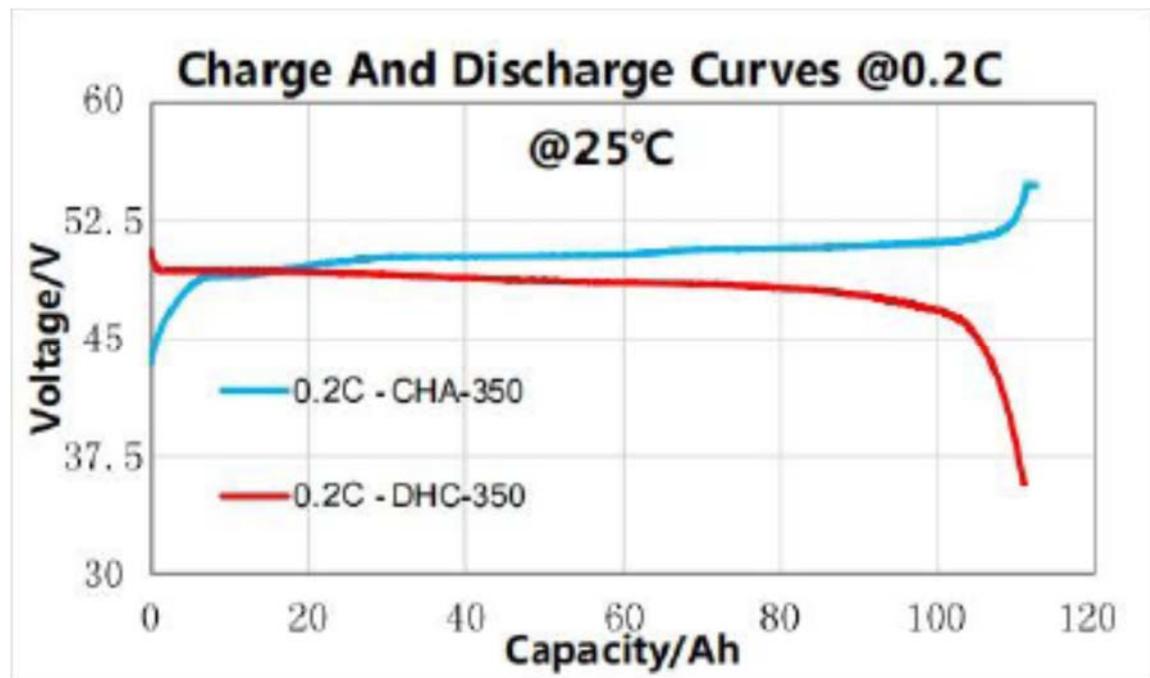
Parameters:

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

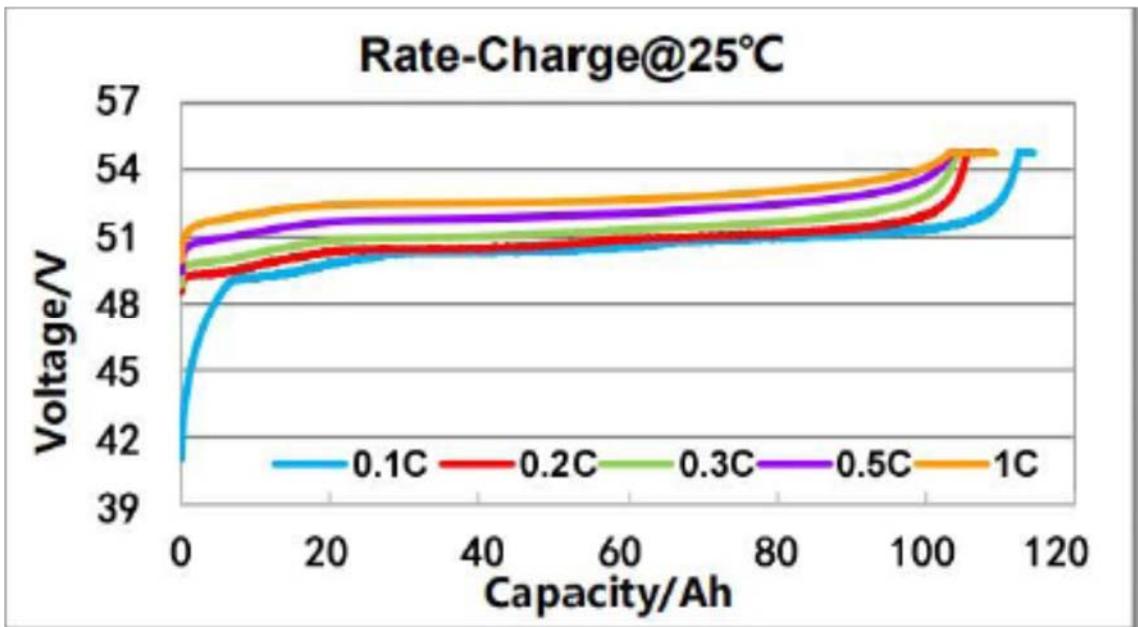
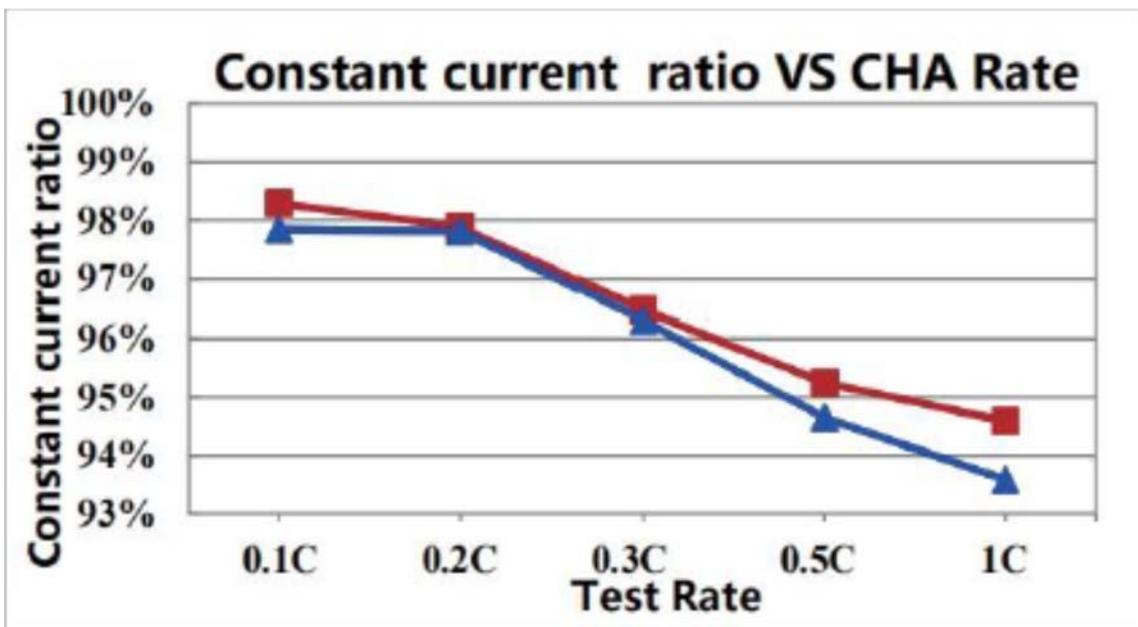
The battery pack is placed in a 25°C environmental chamber, 0.2C constant current and constant voltage to 54.65V, 0.05C cut-off, put it aside for 60 minutes; 1C discharge to 37.5V.

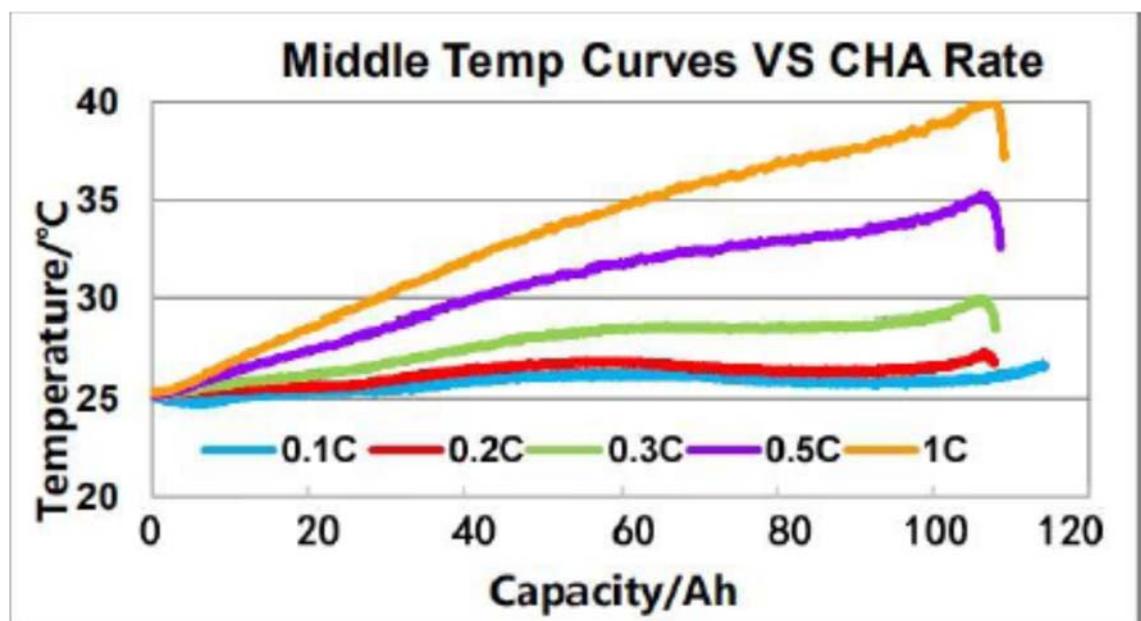


Rate Charging

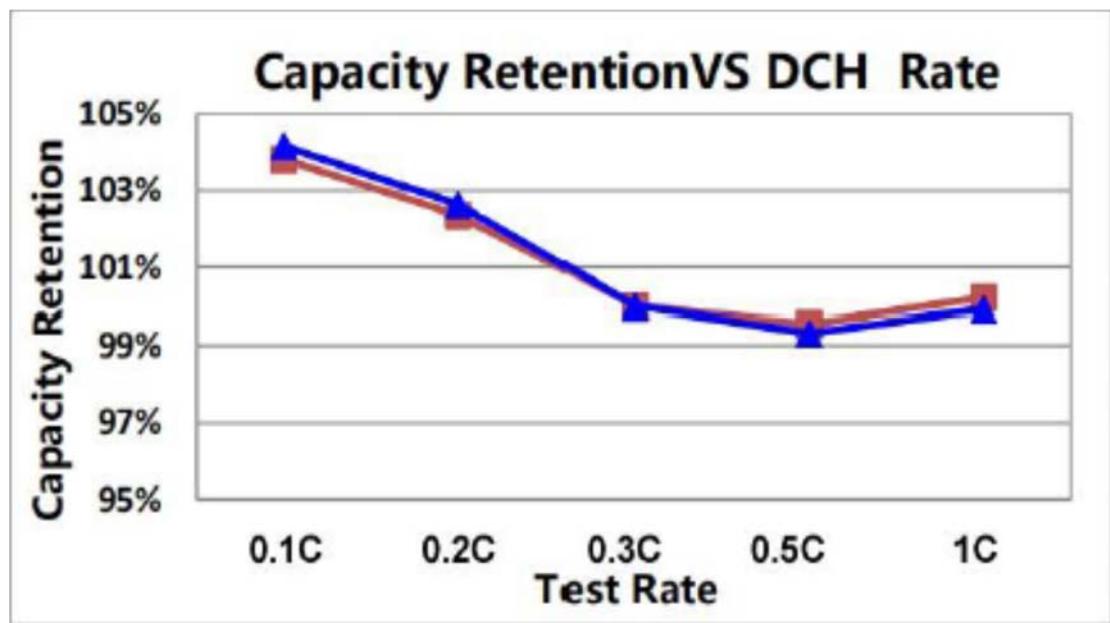
The battery pack are charged at a constant current of 0.1C, 0.2C, 0.3C, 0.5C, and 1C to 54.75V in an environment of 25°C.

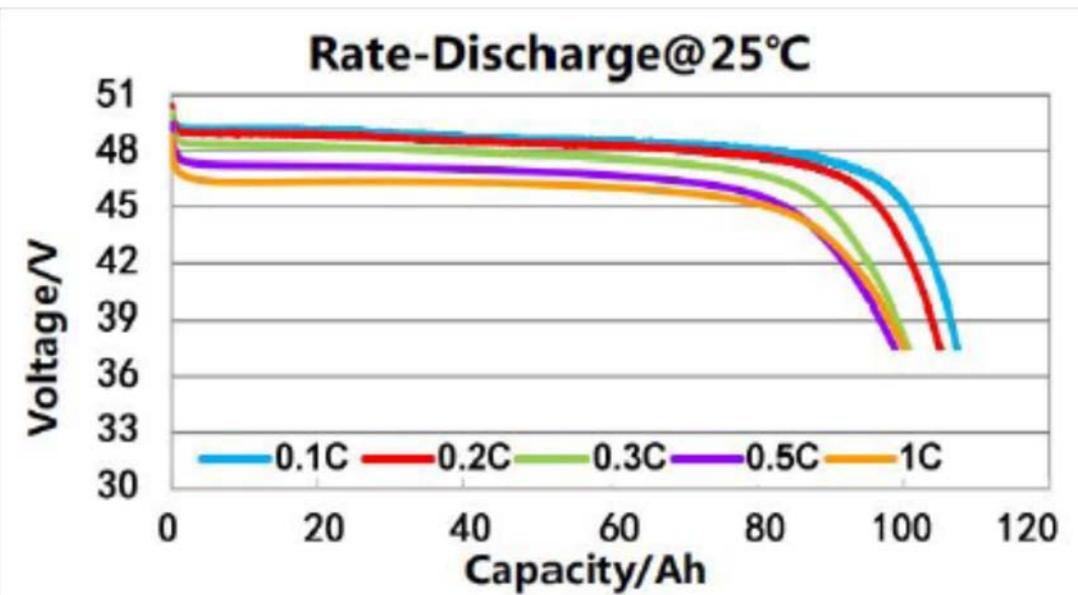
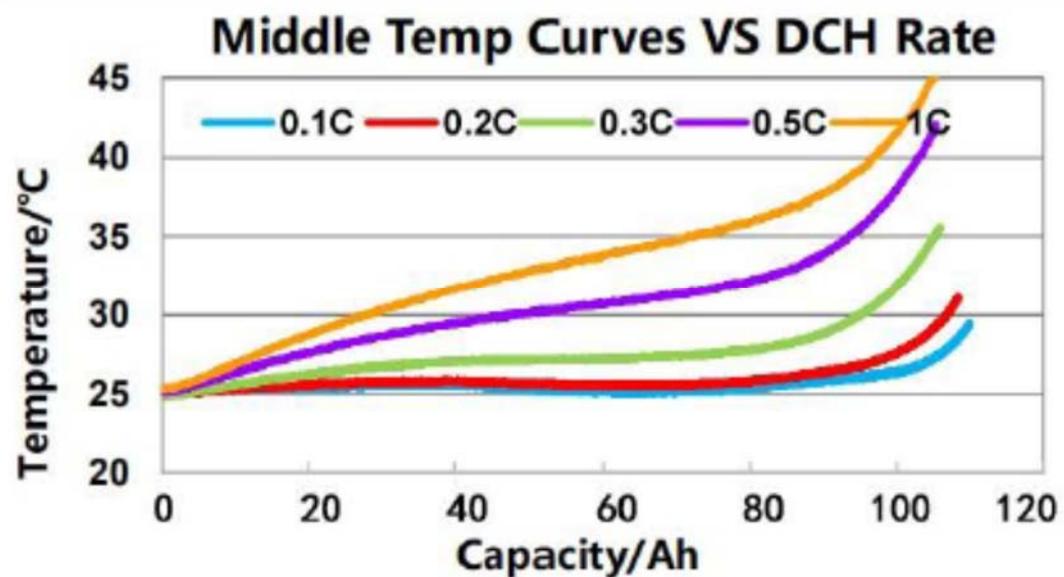
Stop charging after the constant voltage reaches 0.05C, and record the charging test data under different magnifications.





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;

