

HC352 Series

Data sheet



12V 120Ah

12V 150Ah

24V 75Ah



Model Included:

- HC352-12120

12V 100Ah LiFePO4 Battery
- HC352-12150

12V 150Ah LiFePO4 Battery
- HC352-2475

24V 75Ah LiFePO4 Battery

<div><div><div></div><div>Haicen</div><div>Advanced Lithium Batteries</div></div></div>		Model		
		HC352-12120	HC352-12150	HC352-2475
Electrical Specifications	Nominal Voltage	12.8V	12.8V	24V
	Nominal Capacity	120Ah	150Ah	75Ah
	Parallel Connection	Max. 6units	Max. 6units	Max. 6units
	Serial Connection	Max. 4units	Max. 4units	Max. 2units
	BMS	4S150A	4S150A	8S80A
	Circuit Protection	Over charge, Over discharge, Over current, Over temp, Short, Balance		
	Cycle Life	3000times Cycles @100%DOD and 6000times @80% DOD		
	Self Discharge	Less than 3% per month		
	Charge Efficiency	100% @0.2C		
	Discharge Efficiency	98-100% @1C		
Charge Specifications	Charge Voltage	14.4±0.2V	14.4±0.2V	28.8±0.4V
	Standard Current	24A	30A	15A
	Fast Current	60A	75A	37A
Discharge Specifications	Standard Current	24A	30A	15A
	Max. Con. Current	120A	150A	75A
	Peak Current	600A(300ms)	600A(300ms)	400A(300ms)
	Cut-off Voltage	10V	10V	20V
Mechanical Specifications	Dimensions (mm)	352x174x189mm		
	Approx Weight(KG)	13	14	14
	Terminal Type	M8		
	Case Color/material	Black Plastic case (ABS)		
	IP Rating	IP65		
	Cell Type	Cylinder LiFePO4 cell		
	Cell holder	Yes		
Temperature Specifications	Charge Temp	0°C to 55°C	(32°F to 131°F)	
	Discharge Temp	-20°C to 60°C	(-4°F to 140°F)	
	Storage Temp	-5°C to 45°C	(23°F to 113°F)	

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## Key Points for Quality control:

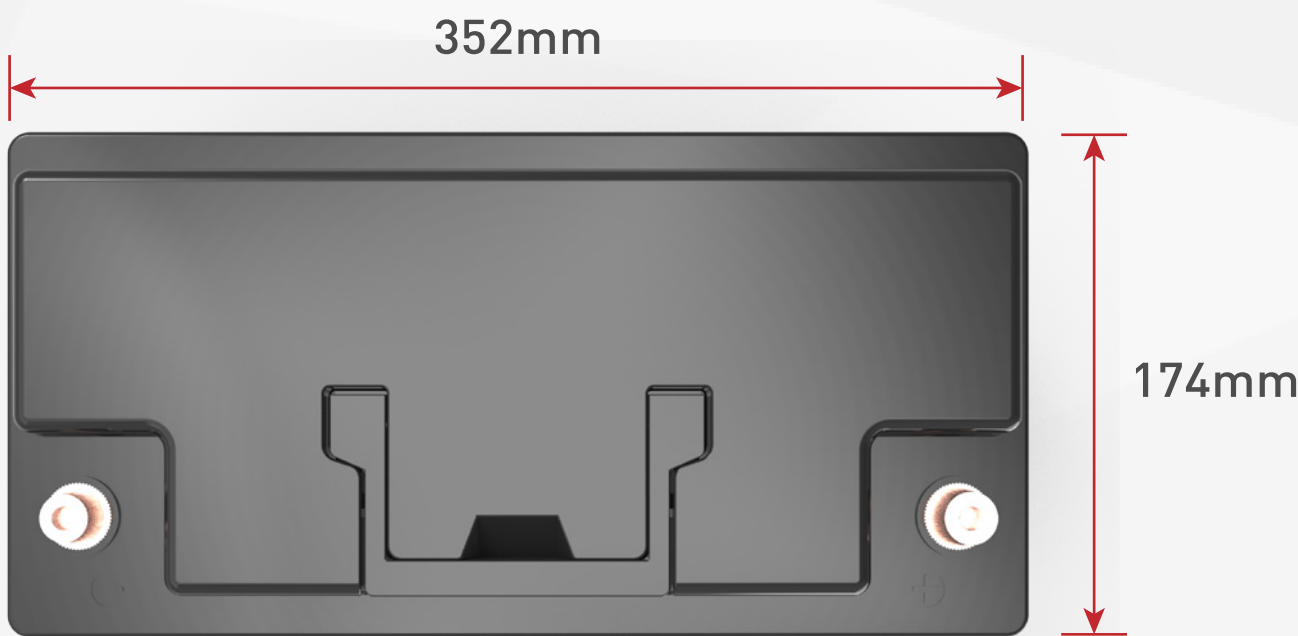
- **Cell match:**  
More strict cell matching standard, the difference of Internal resistance is 1mΩ and voltage is 5mV.
- **Automatic cells welding:**  
Cells are assembled by Automatic welding equipments to ensure the quality reliability and consistency.
- **100% Cycle test:**  
All battery packs are 100% cycle tested (Fully Discharged→Fully Charged→Fully Discharged→60% Charged) before package and all test reports are stored.
- **Unique tracking number:**  
All battery packs are lasered an unique number on the case side for quality tracking.

## Certifications:

- UL1642 (Cell)
- IEC62133 (Cell)
- IEC62619 (Cell)
- CE (Pack)
- UN38.3 (Cell / Pack)
- ROHS (Cell)



## Dimensions:



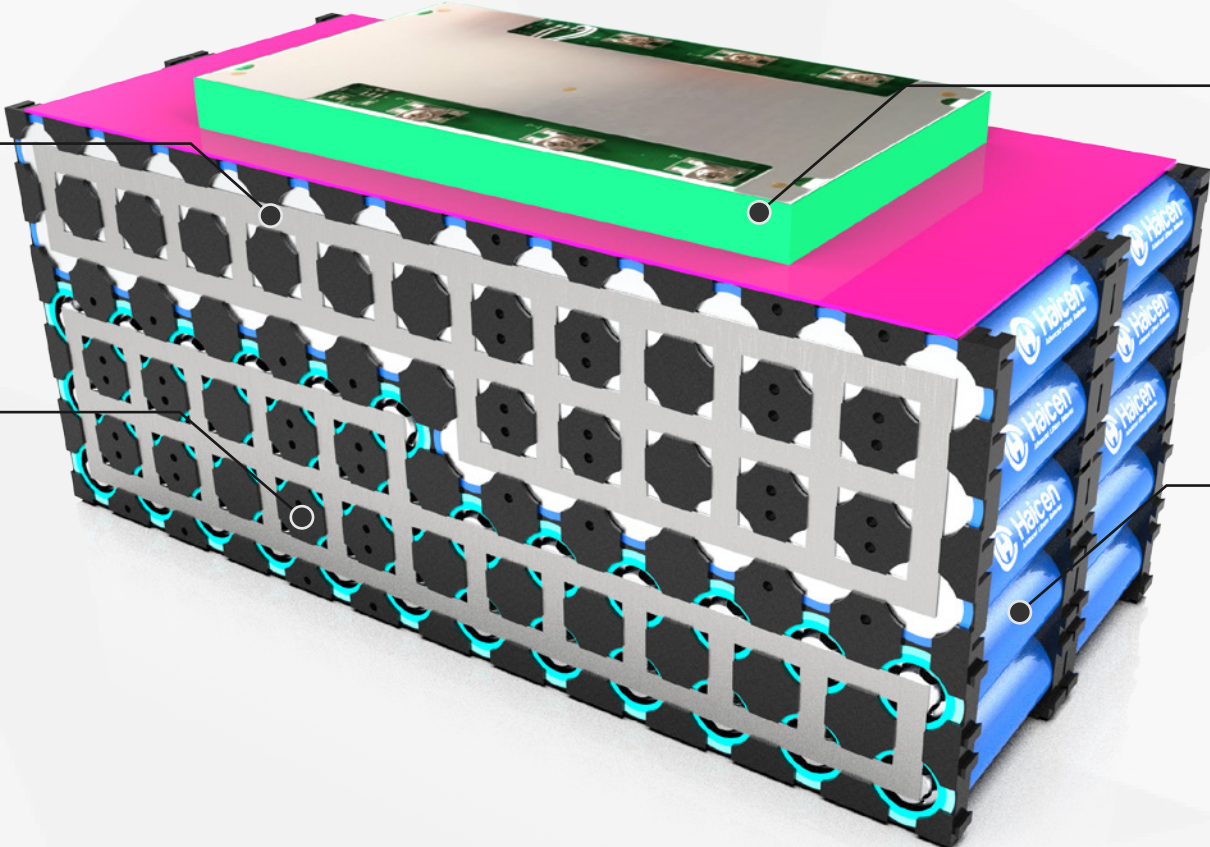
## Internal Structure:

Molded Nickel sheet

Molded Plastic cell holder

BMS

Cell





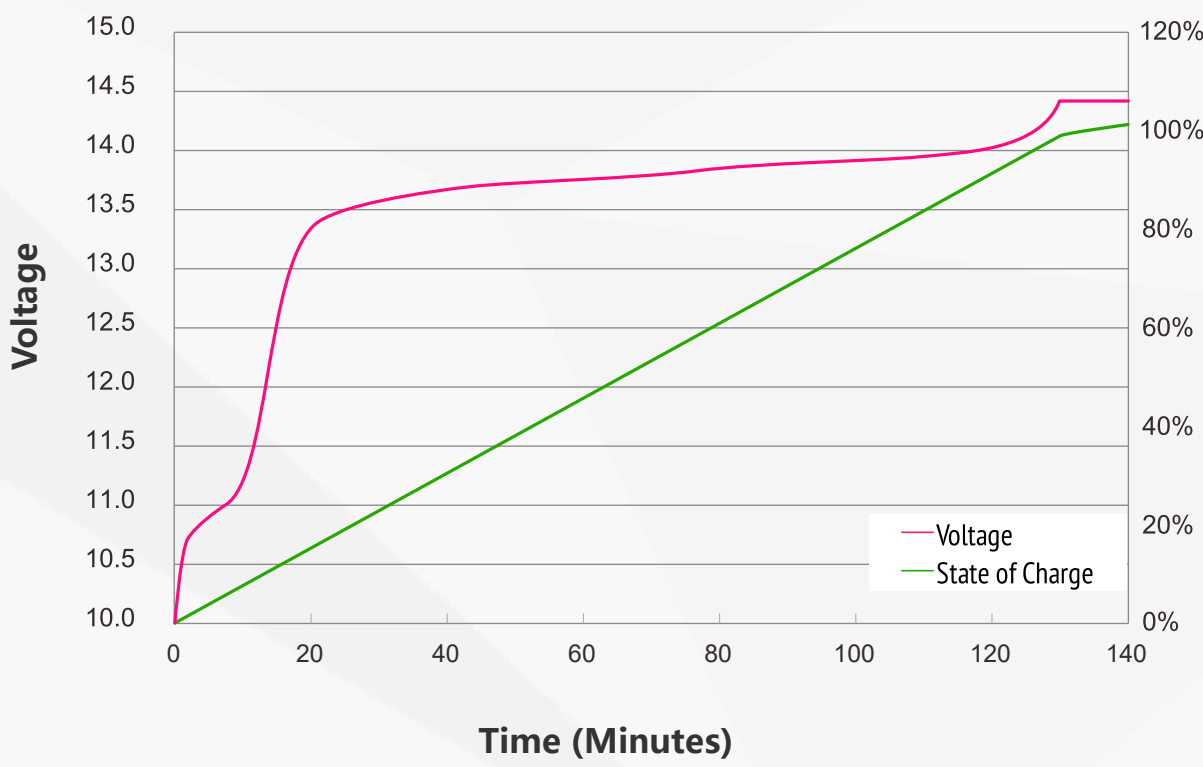
12V 120Ah

12V 150Ah

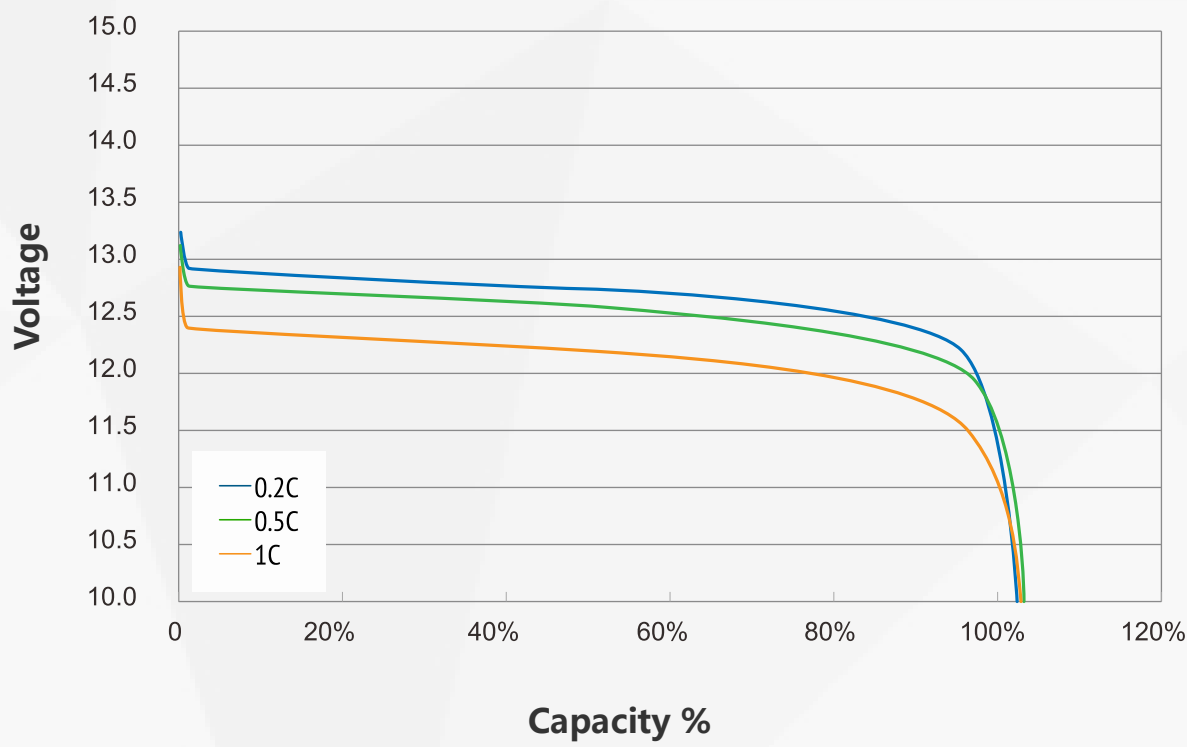
24V 75Ah

## Characteristics Curve:

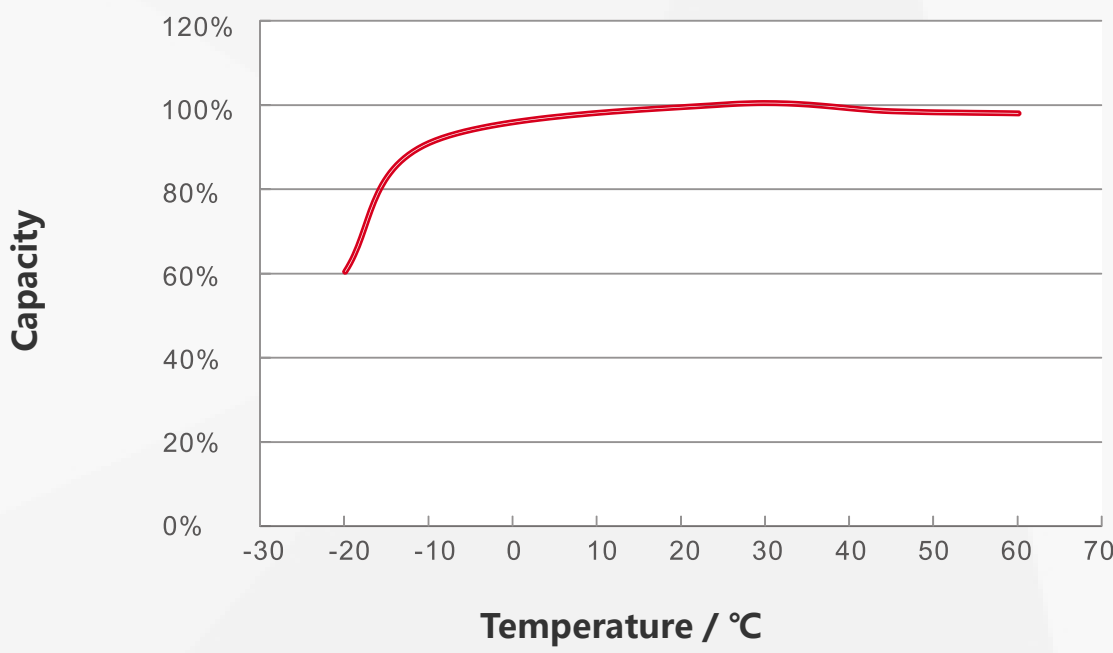
Charging Characteristics (0.5C @25°C)



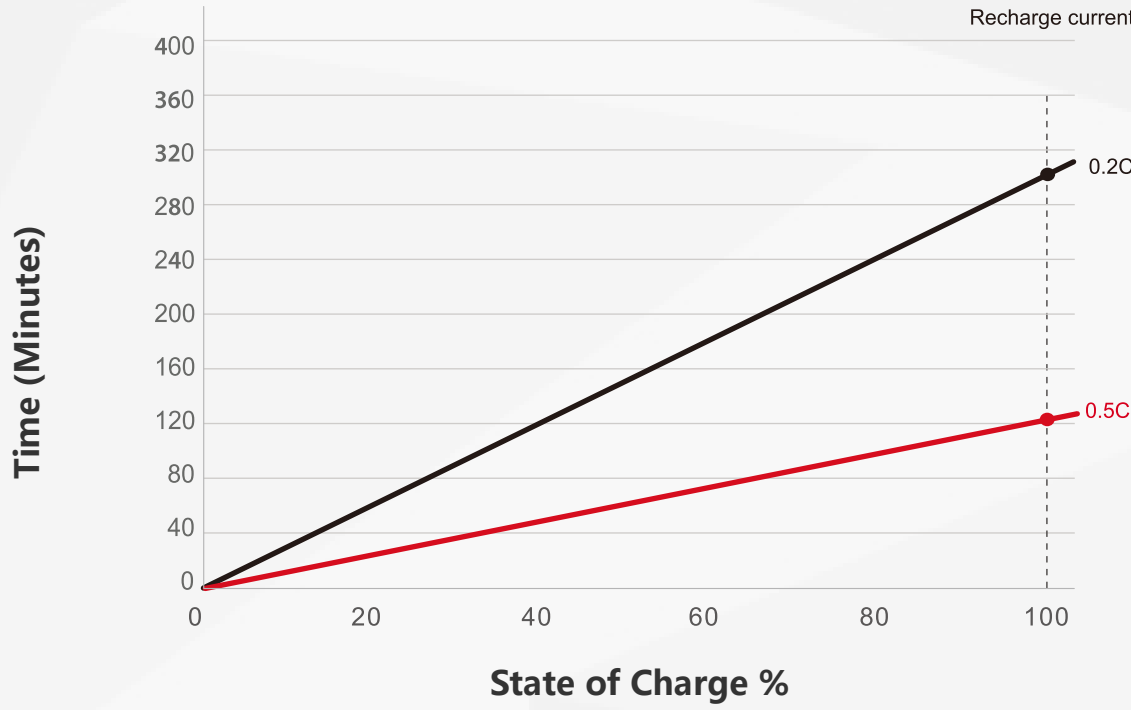
Discharging Characteristics (0.2C, 0.5C, 1C @25°C)



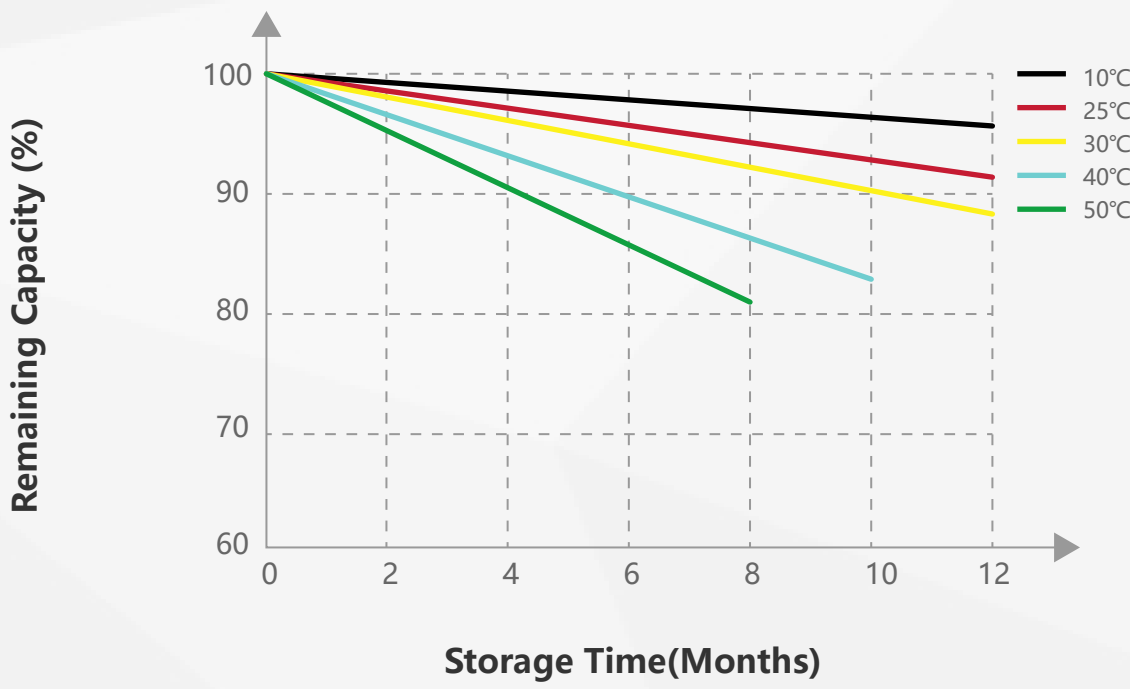
Different Temperature Capacity Curve



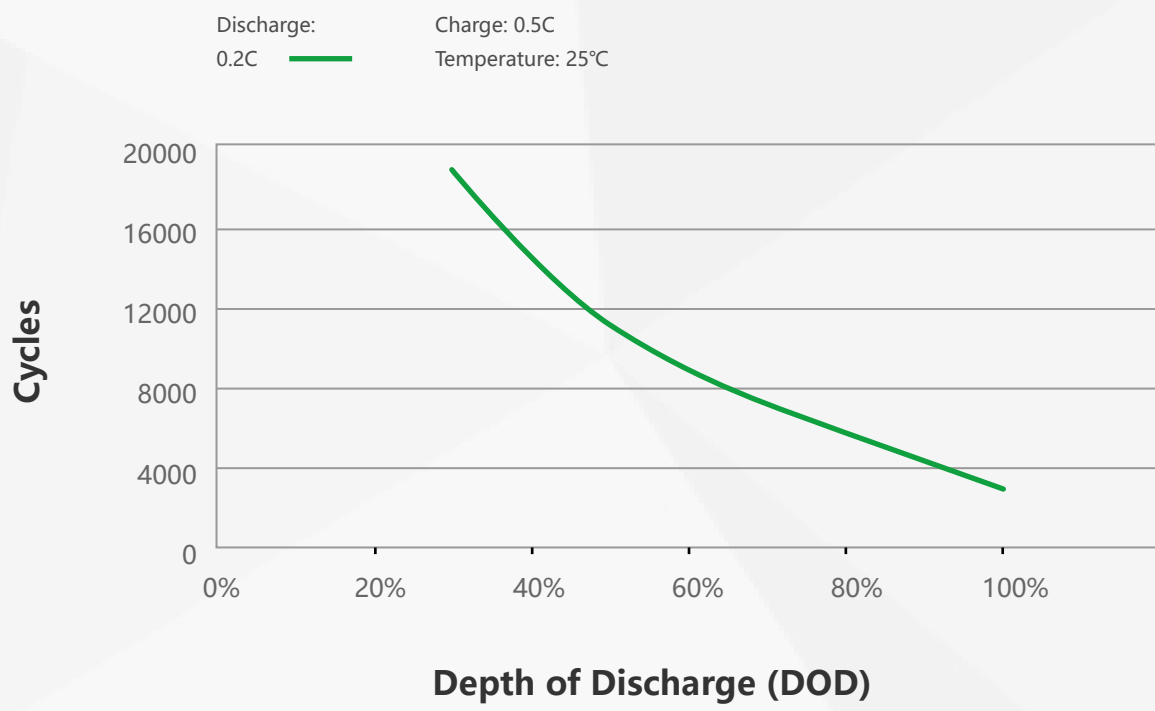
Typical Charge Time Curve



Different Temperature Self Discharge Curve



Different DOD Discharge Cycle Life Curve



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### Key Benefits:

- **Higher qualified cylindrical cell:**  
UL1642, IEC62619, IEC62133 listed with Cycle life more than 3000times and excellent consistency.
- **Stronger BMS:**  
Can support the batteries in parallel and series connection
- **More stable and firm internal structure:**  
Cell holders can well protect and separate the cells to avoid any circuit short risk caused by vibration or impact or over current, and improve the heat dissipation.
- **Smaller size and less weight:**  
The size of our battery is just 3/4 size of the standard 12V 120Ah battery from other suppliers.

### Market Applications:



RV



Marine



Golf cart



Light EV



Energy storage



Cleaning



Robotics



Lighting

### Package:

20' Container=10Pallets=700Cartons=700Units;  
40' Container=20Pallets=1400Cartons=1400Units;



Internal Package  
Forming pearl foam



1Carton=1Unit



1Pallet=70Cartons

Weight: 995Kg/pallet  
Size(L×W×H)=1.2×1×2m ≈ 2.4CBM

### Customized items:

- **Case color:** Customized case color is acceptable based on quantity more than 300pcs per batch.
- **Label design:** We can help you to design customized label on the battery.
- **Carton design:** Customized carton is acceptable based on quantity more than 200pcs per batch.
- **Certificates:** 50% discount on certificates cost for first bulk order and 100% reback for future orders.
- **NDA agreement:** NDA agreement is allowed and necessary to protect your benifits.