

HC507 Series / Data sheet



12V 100Ah12V 125Ah24V 60Ah



Model Included:

- HC507-1210012V 100Ah LiFePO4 Battery
- HC507-1212512V 125Ah LiFePO4 Battery
- HC507-246024V 60Ah LiFePO4 Battery

<div>Haicen Advanced Lithium Batteries</div>		Model		
		HC507-12100	HC507-12125	HC507-2460
Electrical Specifications	Nominal Voltage	12.8V	12.8V	24V
	Nominal Capacity	100Ah	125Ah	60Ah
	Parallel Connection	Max. 6units	Max. 6units	Max. 6units
	Serial Connection	Max. 4units	Max. 4units	Max. 2units
	BMS	4S150A	4S150A	8S60A
	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	20A	25A	12A
	Fast Current	50A	62A	30A
Discharge Specifications	Standard Current	20A	25A	12A
	Max. Con. Current	100A	125A	60A
	Peak Current	600A(300ms)	600A(300ms)	200A(300ms)
	Cut-off Voltage	10V	10V	20V
Mechanical Specifications	Dimensions (mm)	507x110x227mm		
	Approx Weight(KG)	12	12.5	12
	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)	

12V 100Ah

12V 125Ah

24V 60Ah

Key Points for Quality control:

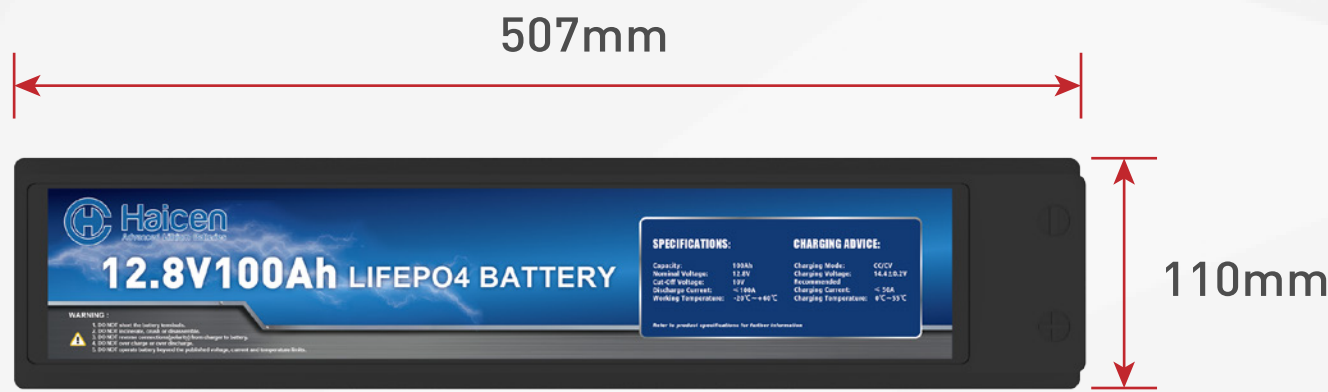
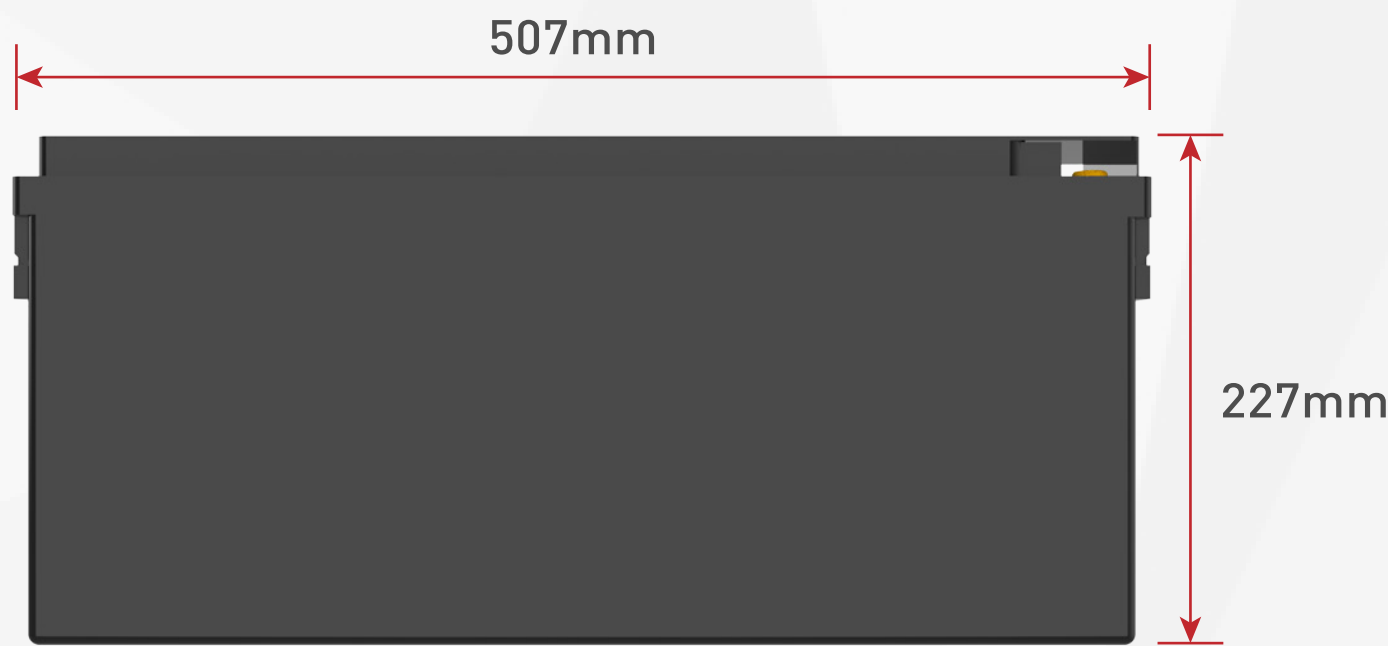
- **Cell match:**
More strict cell matching standard, the difference of Internal resistance is 1mΩ and voltage is 5mV.
- **Automatic cells welding:**
Cells are assembled by Automatic welding equipments to ensure the quality reliability and consistency.
- **100% Cycle test:**
All battery packs are 100% 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:



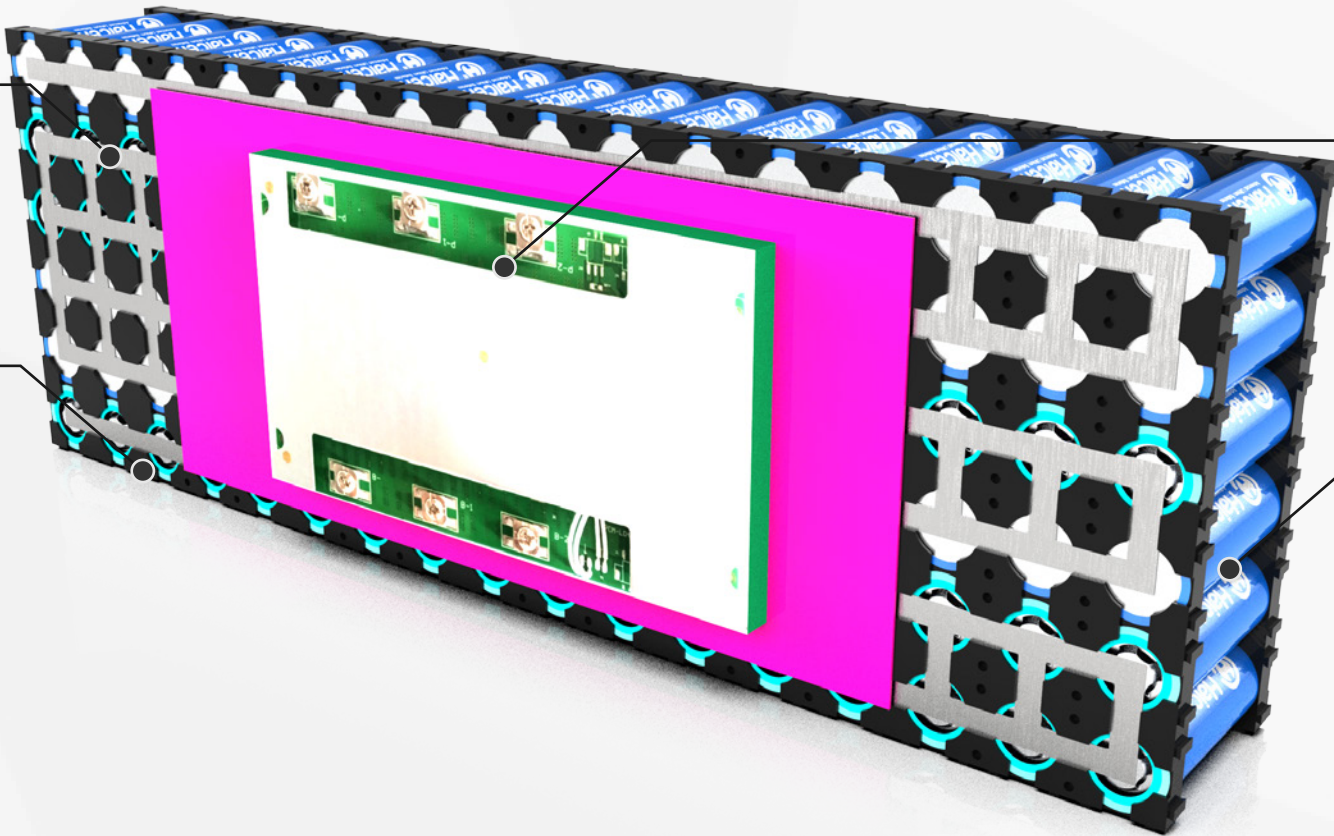
Internal Structure:

Molded Nickel sheet

Molded Plastic cell holder

BMS

Cell



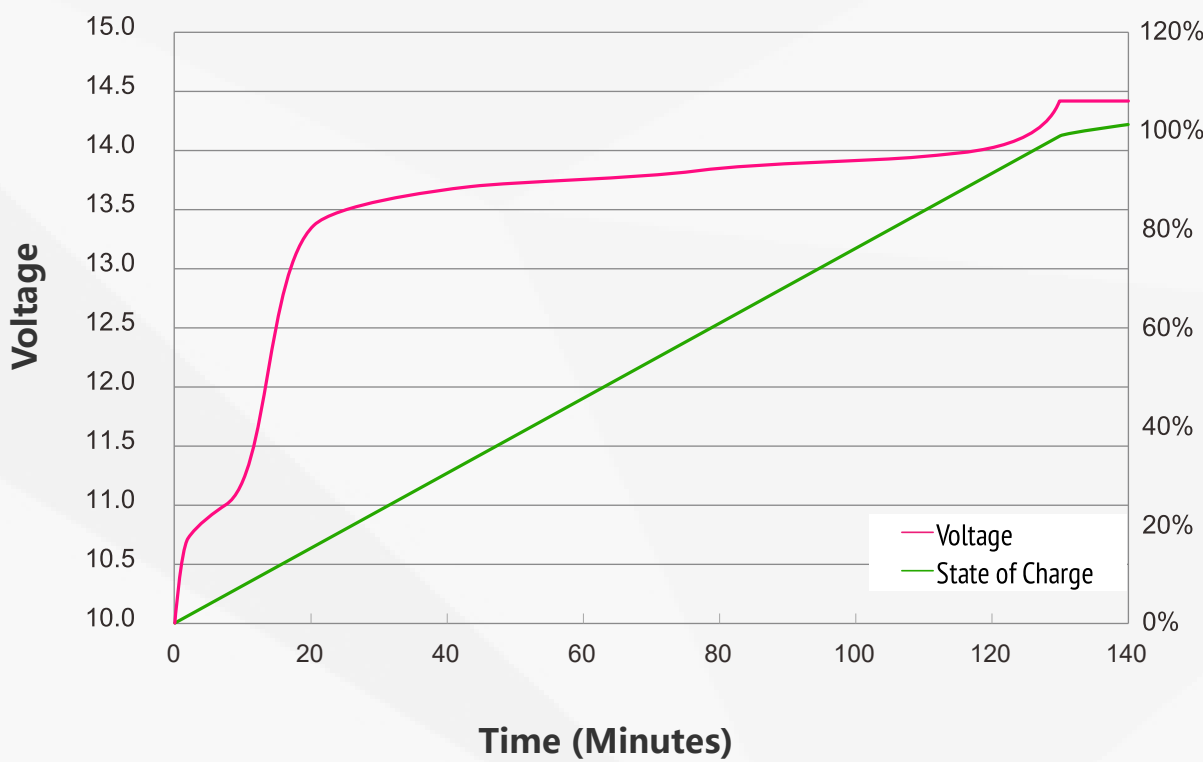
12V 100Ah

12V 125Ah

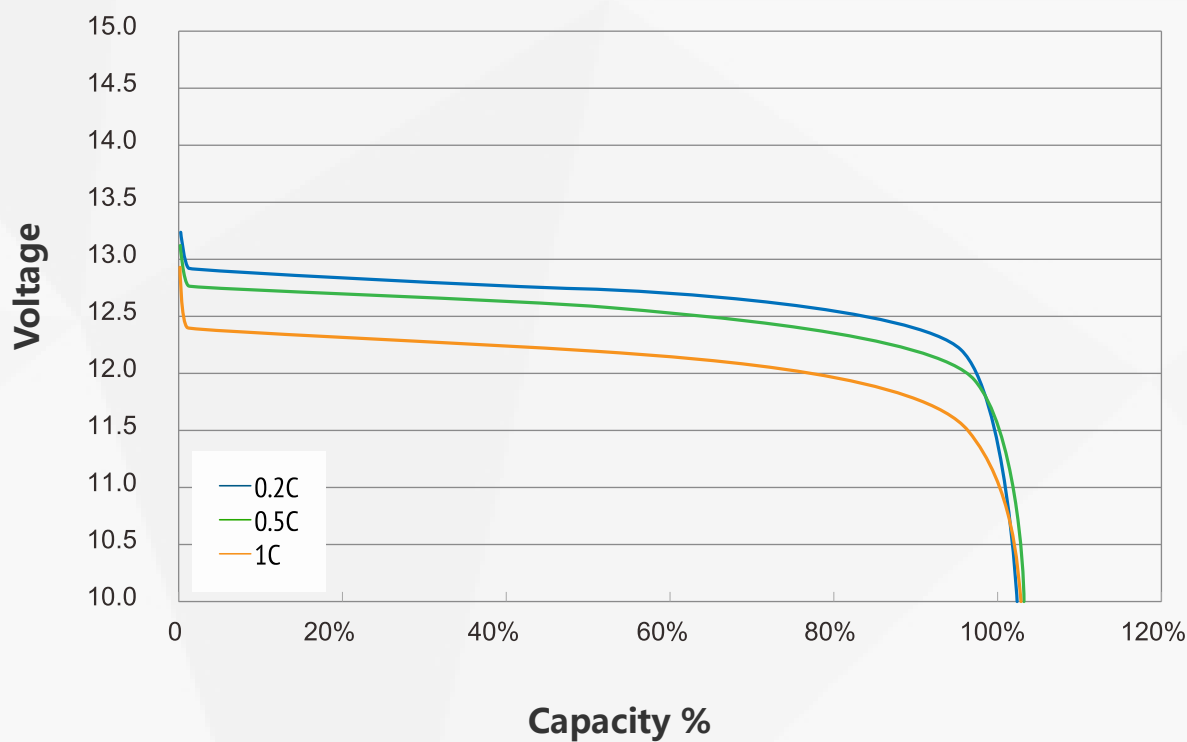
24V 60Ah

Characteristics Curve:

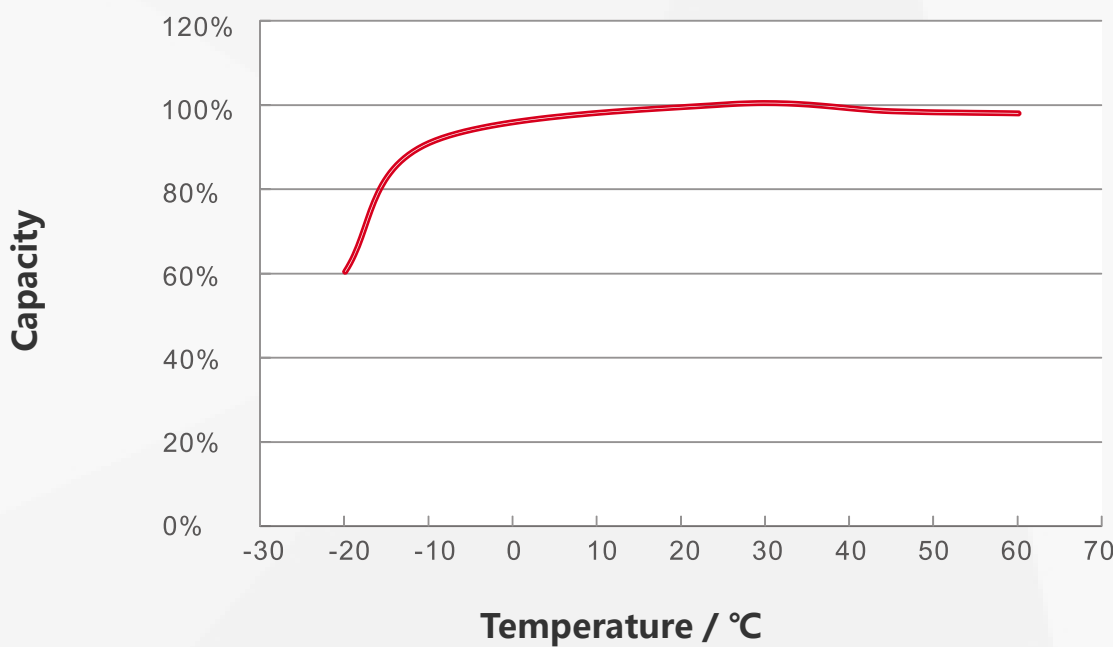
Charging Characteristics (0.5C @25°C)



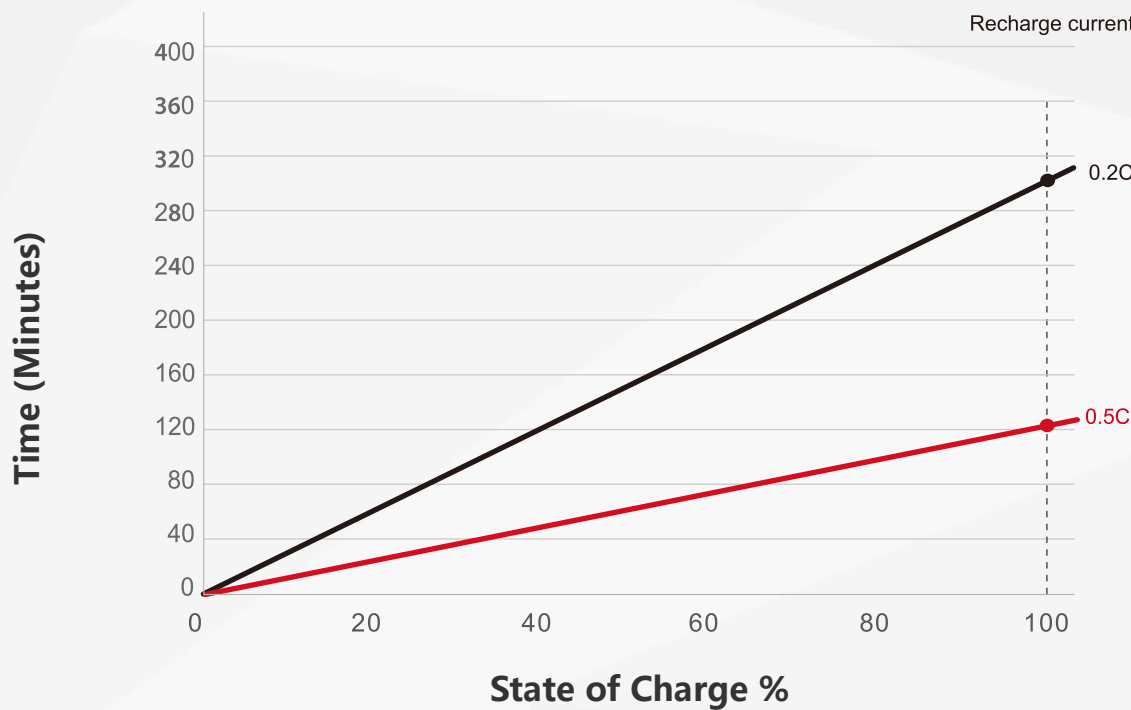
Discharging Characteristics (0.2C, 0.5C, 1C @25°C)



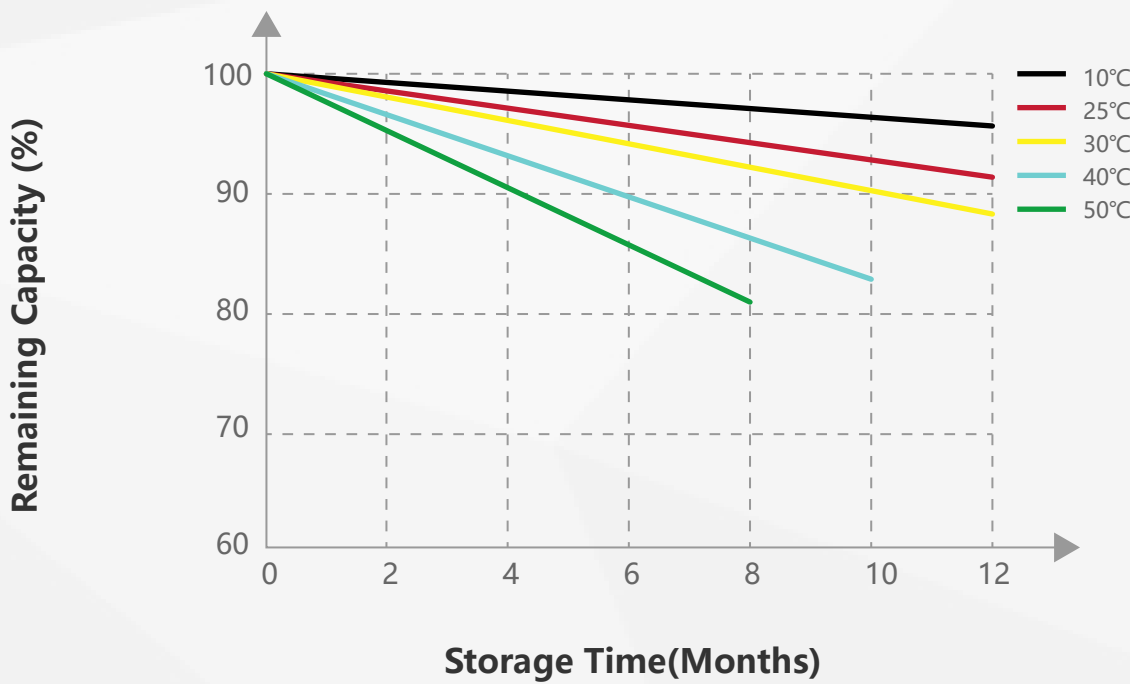
Different Temperature Capacity Curve



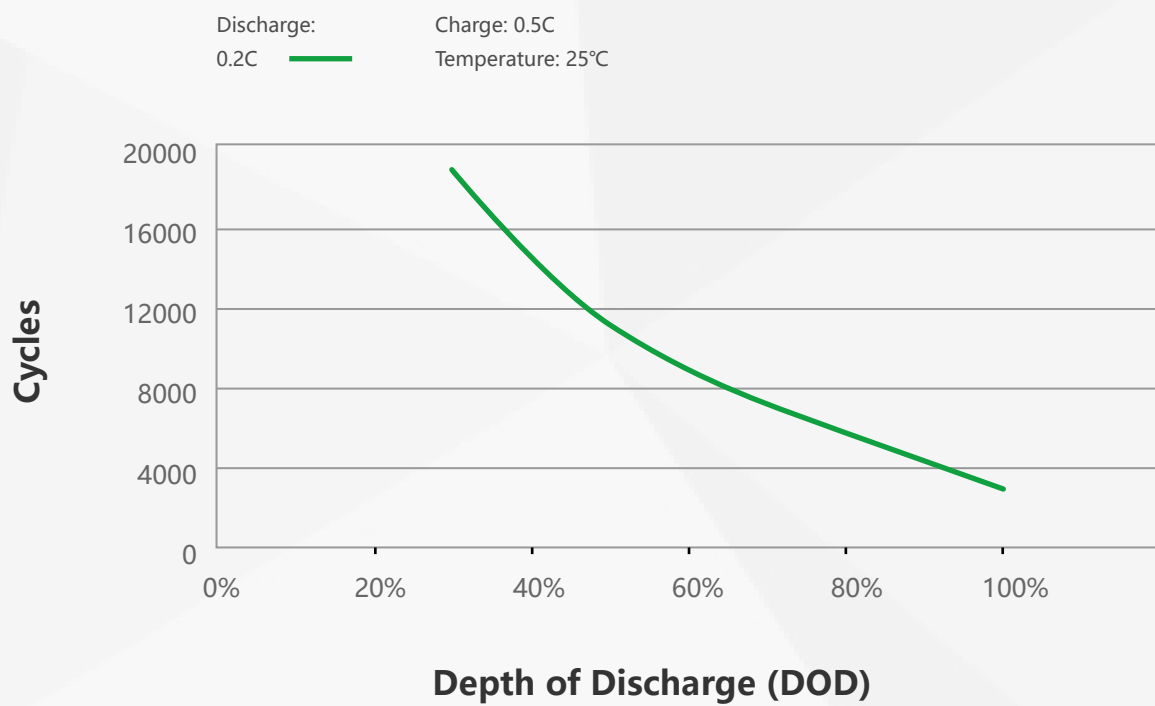
Typical Charge Time Curve



Different Temperature Self Discharge Curve



Different DOD Discharge Cycle Life Curve



12V 100Ah

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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 100Ah battery from other suppliers.

Market Applications:



RV



Marine



Golf cart



Light EV



Energy storage



Cleaning



Robotics



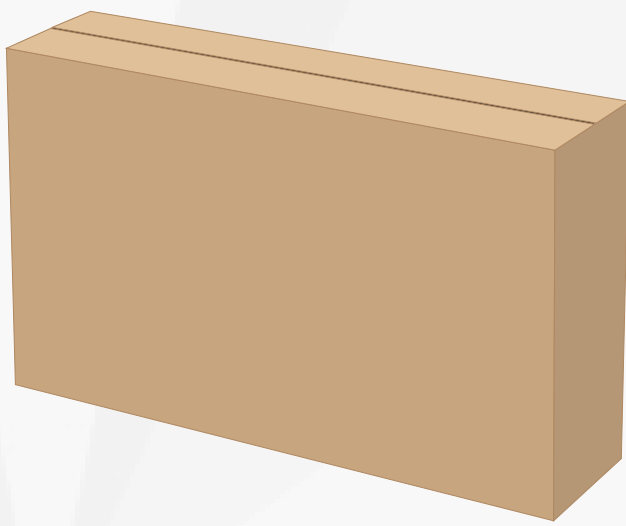
Lighting

Package:

20' Container=10Pallets=660Cartons=660Units;
40' Container=20Pallets=1320Cartons=1320Units;

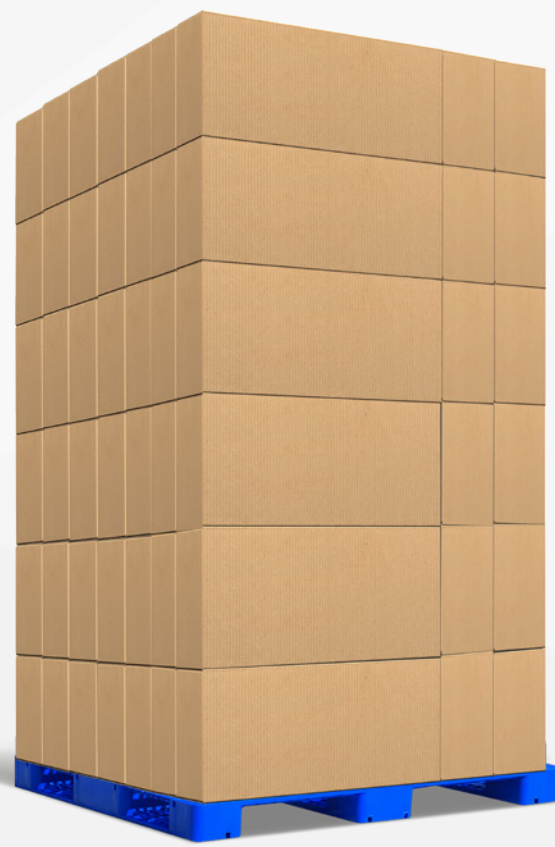


Internal Package
Forming pearl foam



1Carton=1Unit

Weight: 13Kg/carton
Size(L×W×H): 567×170×298mm



1Pallet=66Cartons

Weight: 873Kg/pallet
Size(L×W×H)=1.2×1×1.95m ≈ 2.3BM

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.