

HC552 Series / Data sheet



12V 175Ah12V 200Ah24V 80Ah24V 100Ah



Model Included:

- HC552-1217512V 175Ah LiFePO4 Battery
- HC552-1220012V 200Ah LiFePO4 Battery
- HC552-248024V 80Ah LiFePO4 Battery
- HC552-2410024V 100Ah LiFePO4 Battery

HaicenAdvanced Lithium Batteries		Model			
		HC552-12175	HC552-12200	HC552-2480	HC552-24100
Electrical Specifications	Nominal Voltage	12.8V	12.8V	24V	24V
	Nominal Capacity	175Ah	200Ah	80Ah	100Ah
	Parallel Connection	Max. 6units	Max. 6units	Max. 6units	Max. 6units
	Serial Connection	Max. 4units	Max. 4units	Max. 2units	Max. 2units
	BMS	4S150A	4S150A	8S80A	8S100A
	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	28.8±0.4V
	Standard Current	35A	40A	16A	20A
	Fast Current	87A	100A	40A	50A
Discharge Specifications	Standard Current	35A	40A	16A	20A
	Max. Con. Current	150A	150A	80A	100A
	Peak Current	600A(300ms)	600A(300ms)	400A(300ms)	500A(300ms)
	Cut-off Voltage	10V	10V	20V	20V
Mechanical Specifications	Dimensions (mm)	552x110x289mm			
	Approx Weight(KG)	18.5	20.5	18.5	19.5
	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℃ to 55℃		(32°F to 131°F)	
	Discharge Temp	-20℃ to 60℃		(-4°F to 140°F)	
	Storage Temp	-5℃ to 45℃		(23°F to 113°F)	

12V 175Ah

12V 200Ah

24V 80Ah

24V 100Ah

Key Points for Quality control:

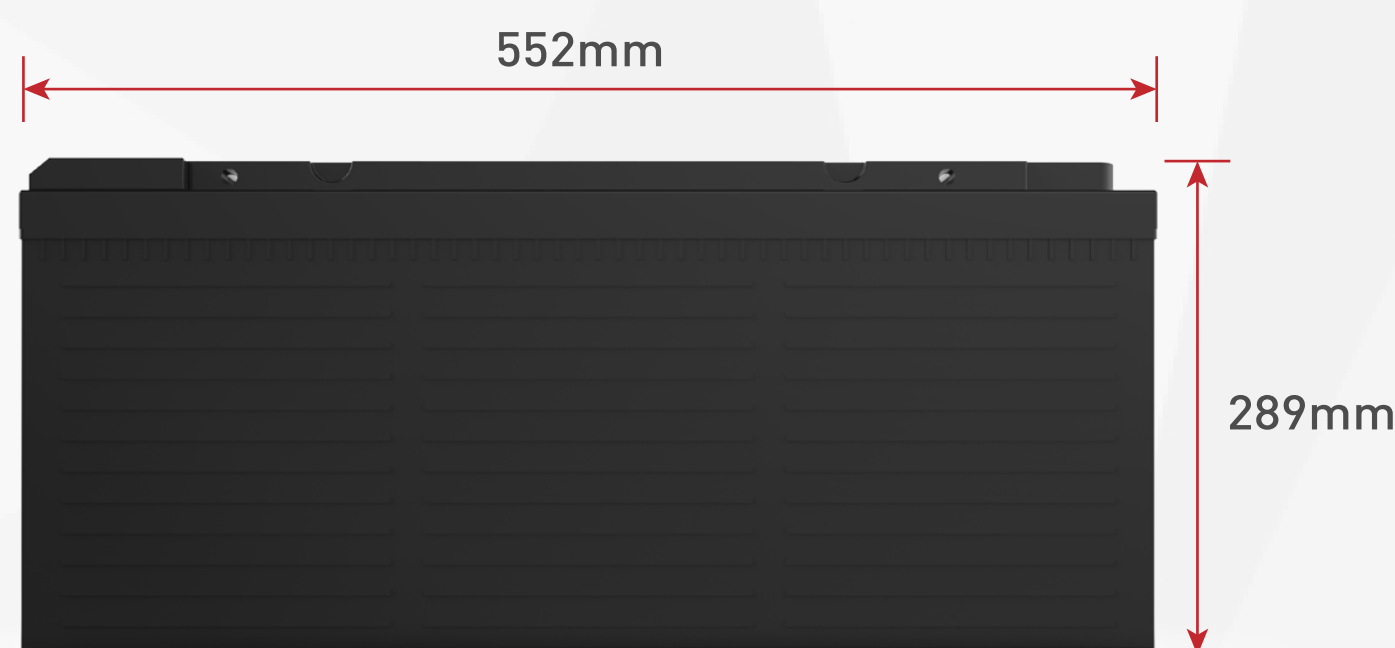
- **Cell match:**
More strict cell matching standard, the difference of Internal resistance is 1mΩ and voltage is 5mV.
- **Automatic cells welding:**
Cells are assembled by Automatic welding equipments to ensure the quality reliability and consistency.
- **100% Cycle test:**
All battery packs are 100%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



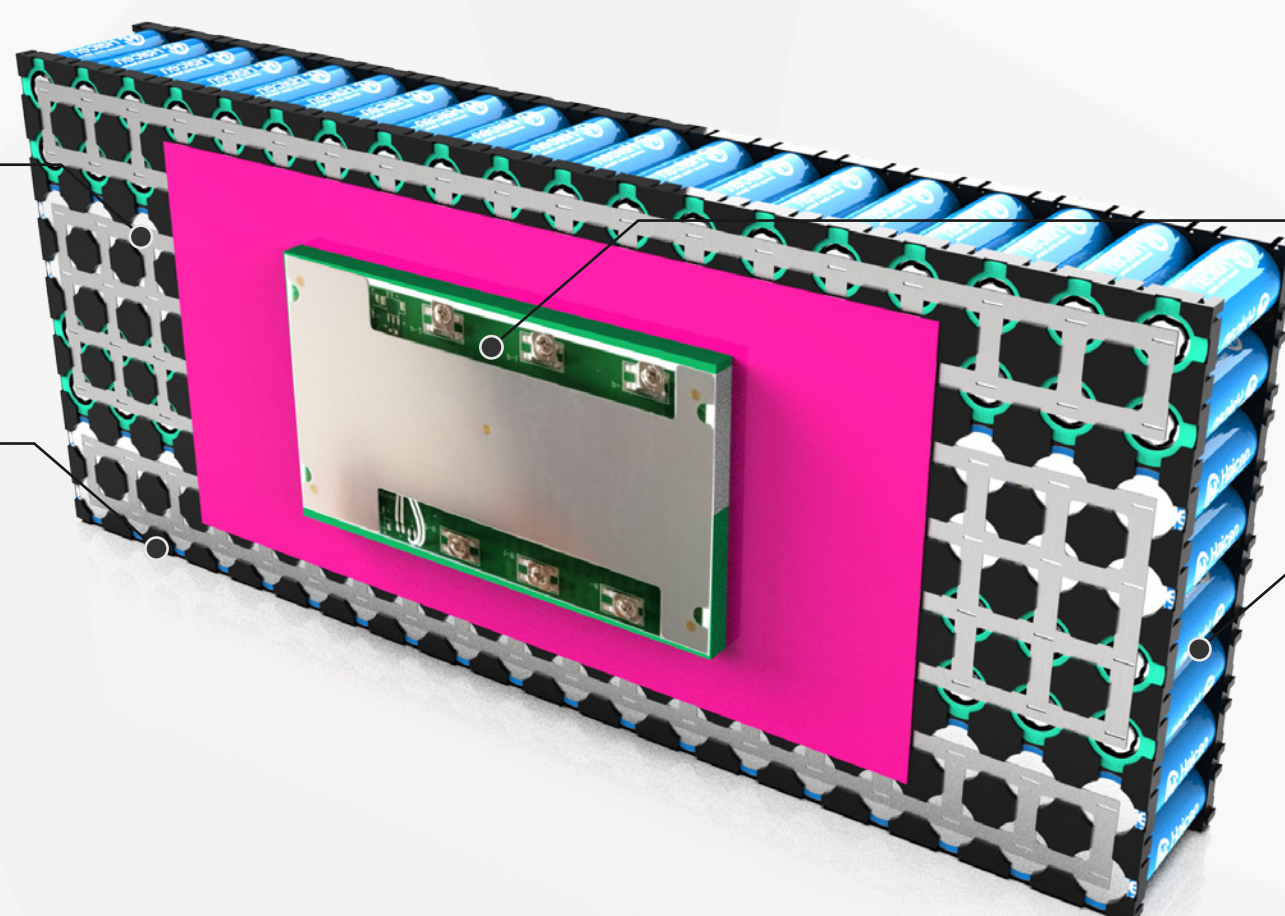
Internal Structure:

Molded Nickel sheet

Molded Plastic cell holder

BMS

Cell



12V 175Ah

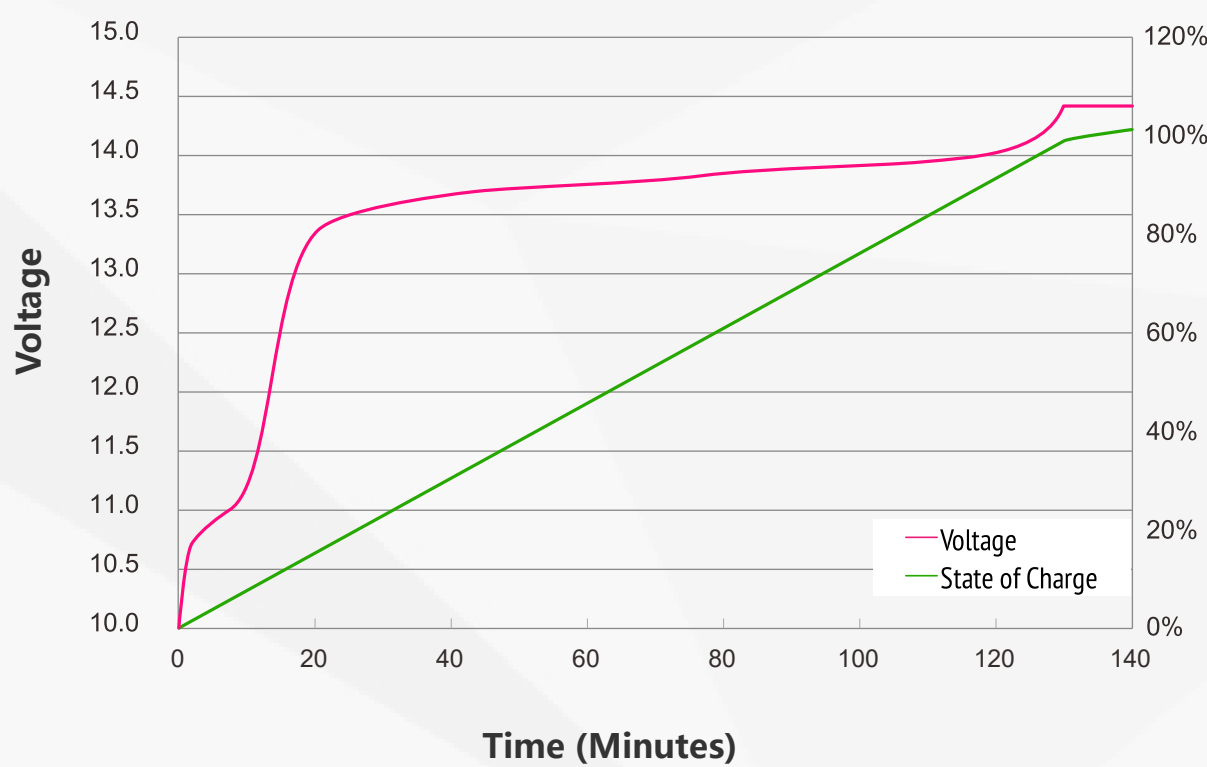
12V 200Ah

24V 80Ah

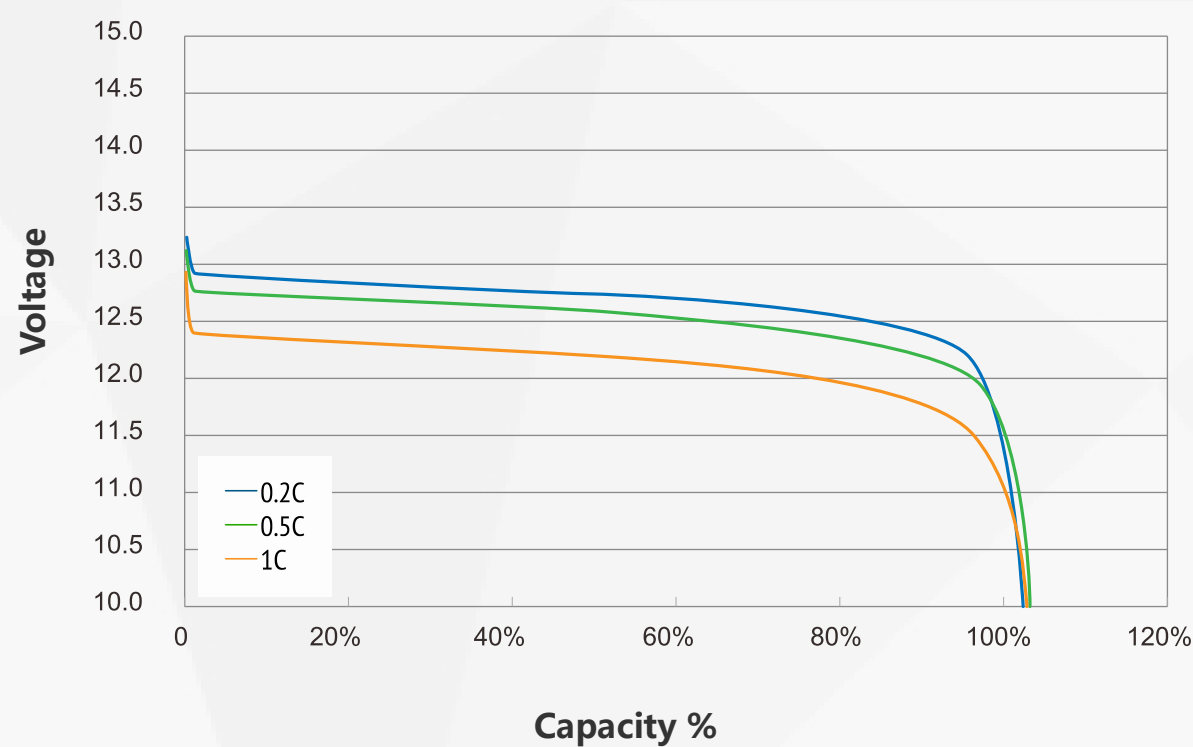
24V 100Ah

Characteristics Curve:

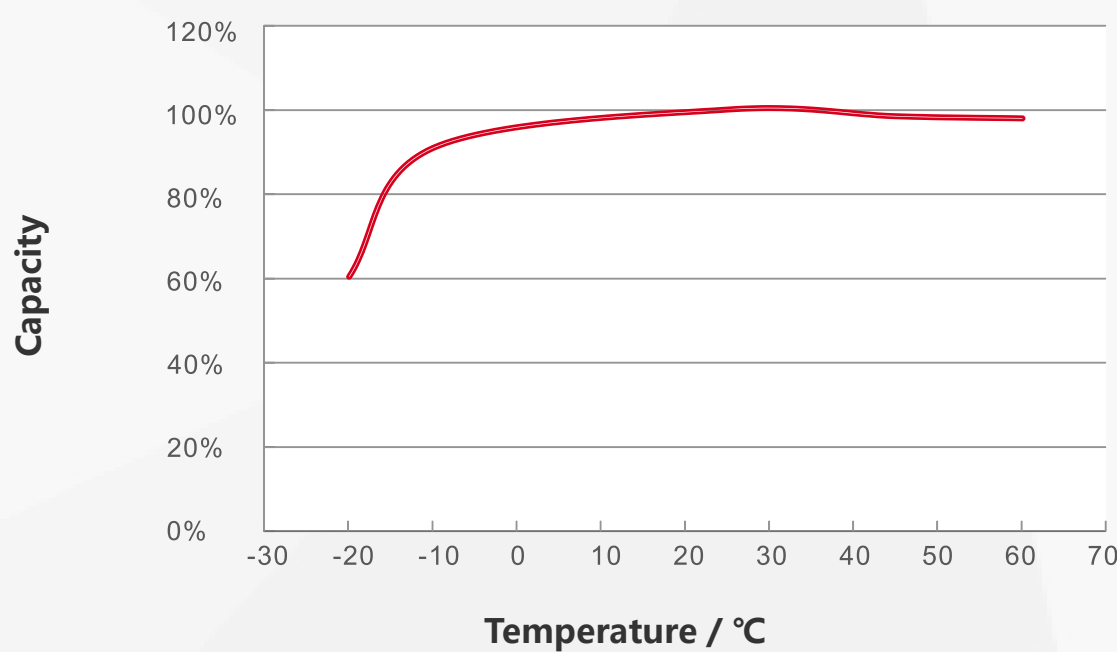
Charging Characteristics (0.5C @25°C)



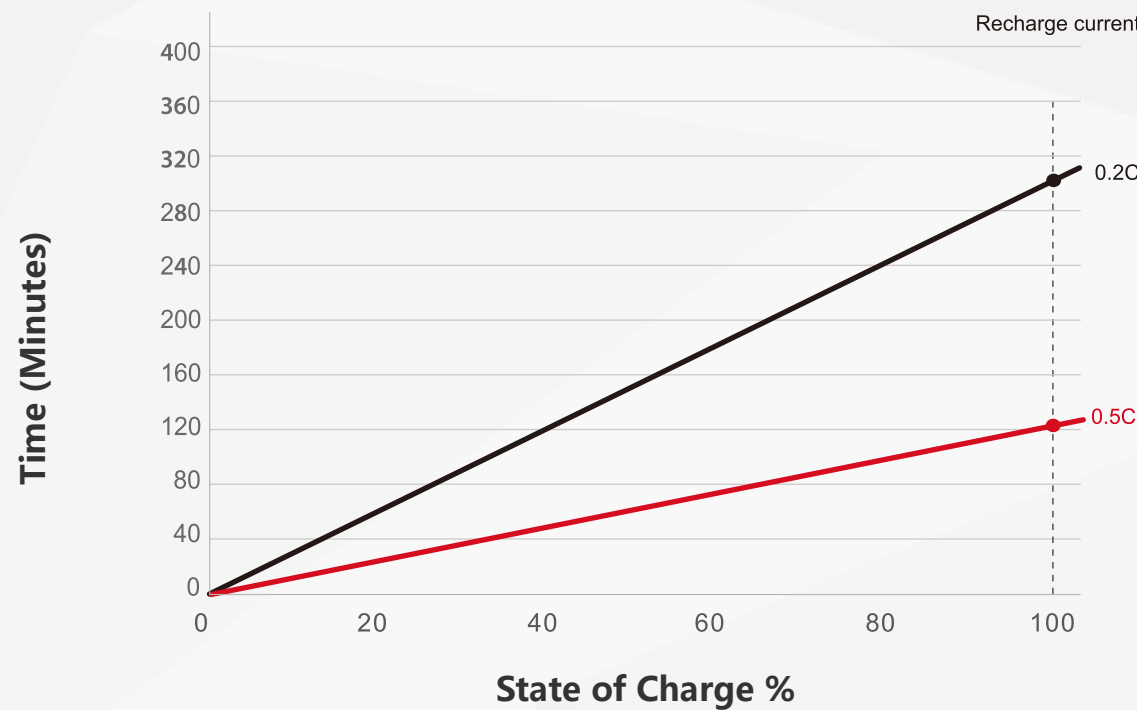
Discharging Characteristics (0.2C, 0.5C, 1C @25°C)



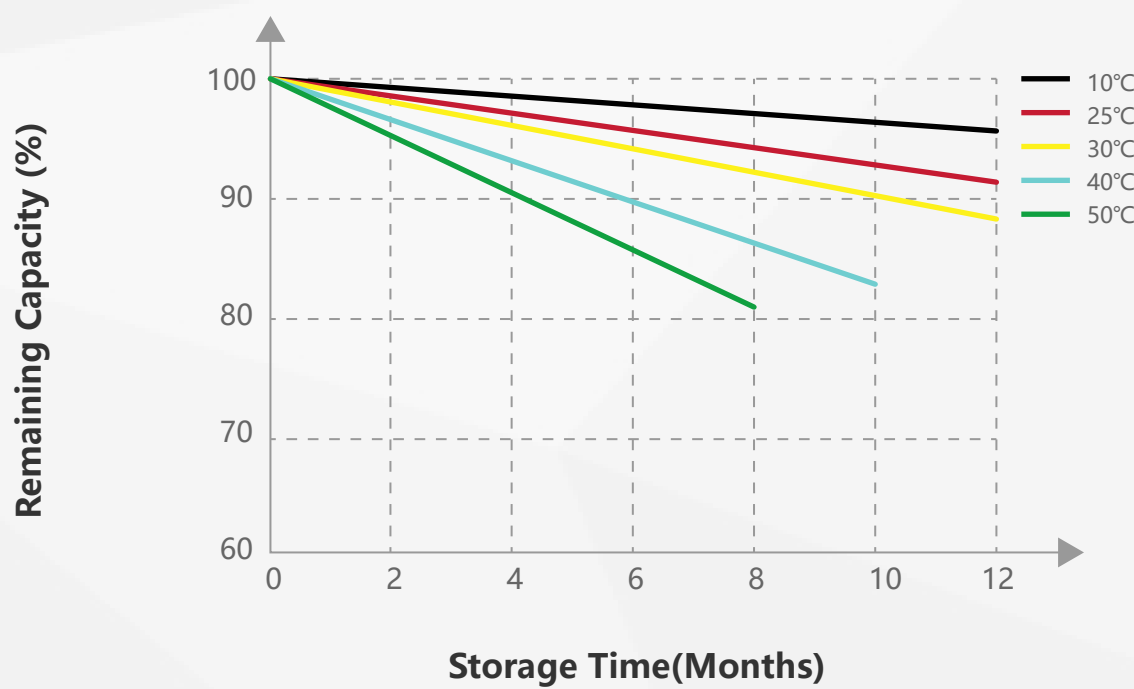
Different Temperature Capacity Curve



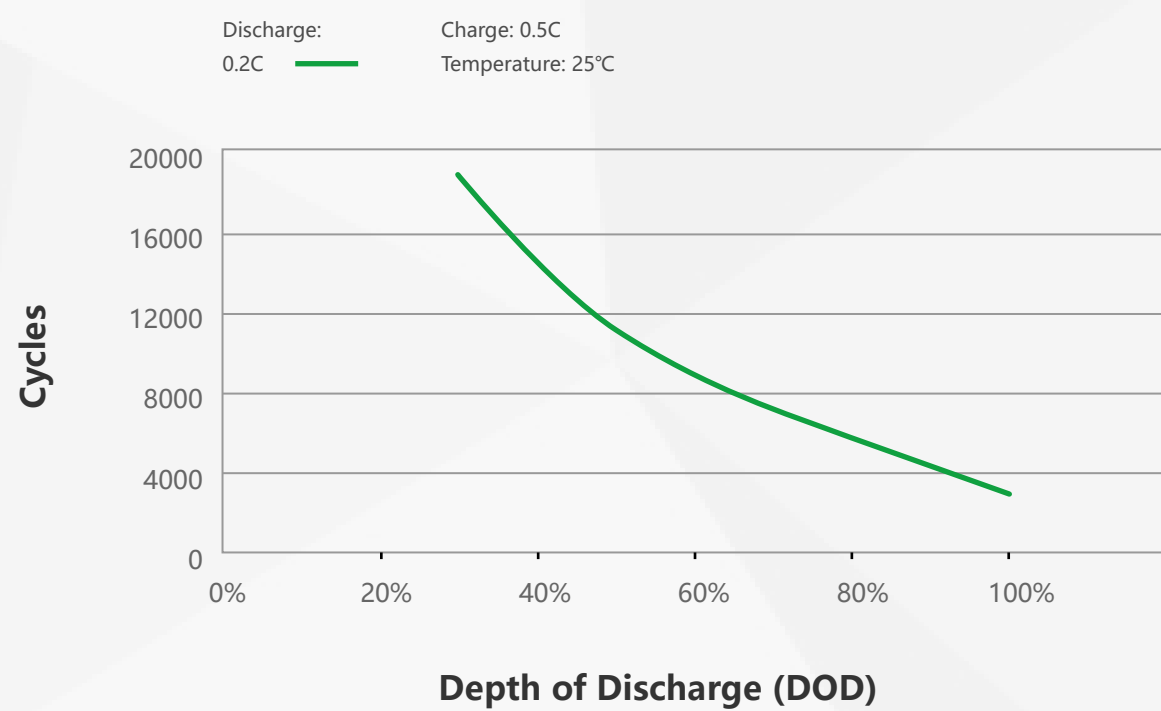
Typical Charge Time Curve



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 175Ah battery from other suppliers.

Market Applications:



RV



Marine



Golf cart



Light EV



Energy storage



Cleaning



Robotics



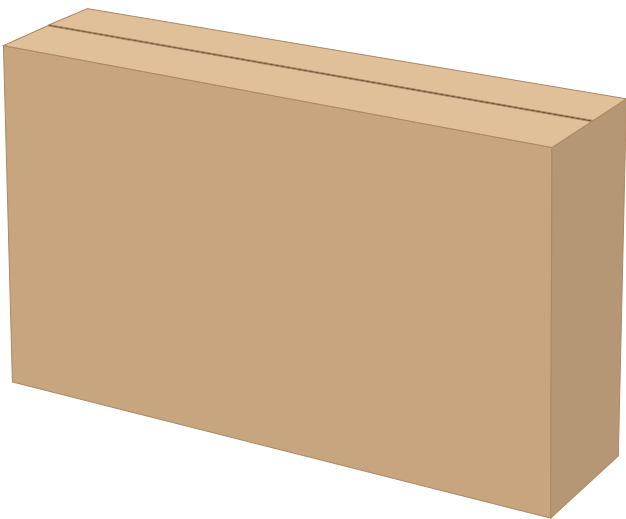
Lighting

Package:

20' Container=10Pallets=600Cartons=600Units;
40' Container=20Pallets=1200Cartons=1200Units;

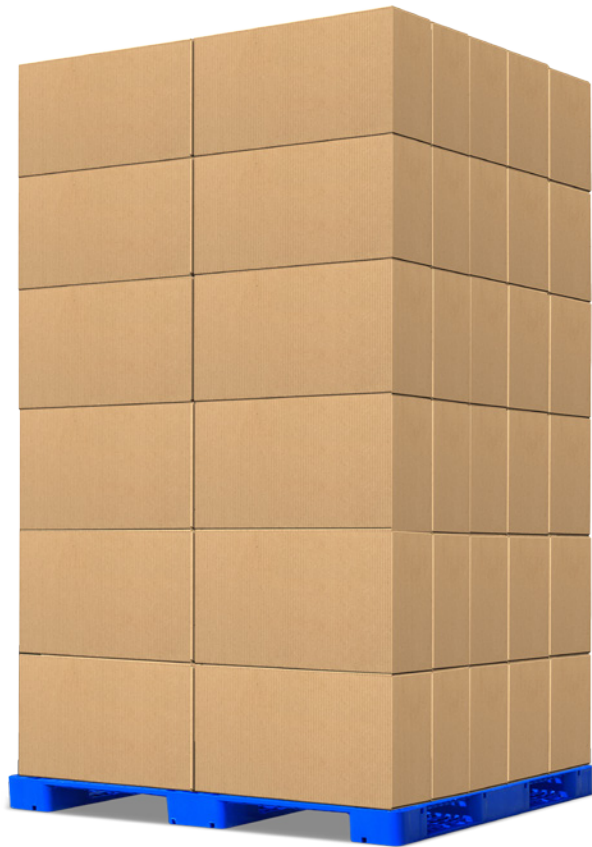


Internal Package
Forming pearl foam



1Carton=1Unit

Weight: 19.5Kg/carton
Size(L×W×H): 615×175×360mm



1Pallet=60Cartons

Weight: 1185Kg/pallet
Size(L×W×H)=1.2×1×2.15m ≈ 2.6BM

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.