

HCG-8DS Golf Series / Data sheet

48V 105Ah


Bluetooth



Model Included:

- HCG8D-48105** 48V 105Ah LiFePO4 Battery
- HCG8DS-48105BT** 48V 105Ah LiFePO4 Battery with Bluetooth



 Haicen Advanced Lithium Batteries		Model	
		HCG8D-48105	HCG8DS-48105BT
Electrical Specifications	Nominal Voltage	51.2V	51.2V
	Nominal Capacity	105Ah	105Ah
	Parallel Connection	Max. 6units	Max. 6units
	Serial Connection	NO	NO
	BMS	16S200A	16S200A
	Bluetooth	No	Android/IOS
	Heat	No	No
	Circuit Protection	Over charge, Over discharge, Over current, Over temp, Short, Balance,Low temp	
	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	57.6±0.8V	57.6±0.8V
	Standard Current	21A	21A
	Fast Current	52A	52A
Discharge Specifications	Standard Current	21A	21A
	Max. Con. Current	100A	100A
	Peak Current	850A(20ms)	900A(100ms)
	Cut-off Voltage	40V	40V
Mechanical Specifications	Dimensions (mm)	521×267×220mm (Group 8D)	
	Approx Weight(KG)	40	40
	Terminal Type	M8	
	Case Color/material	Black Plastic case (ABS)	
	IP Rating	IP65	
	Cell Type	Cylindrical 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:

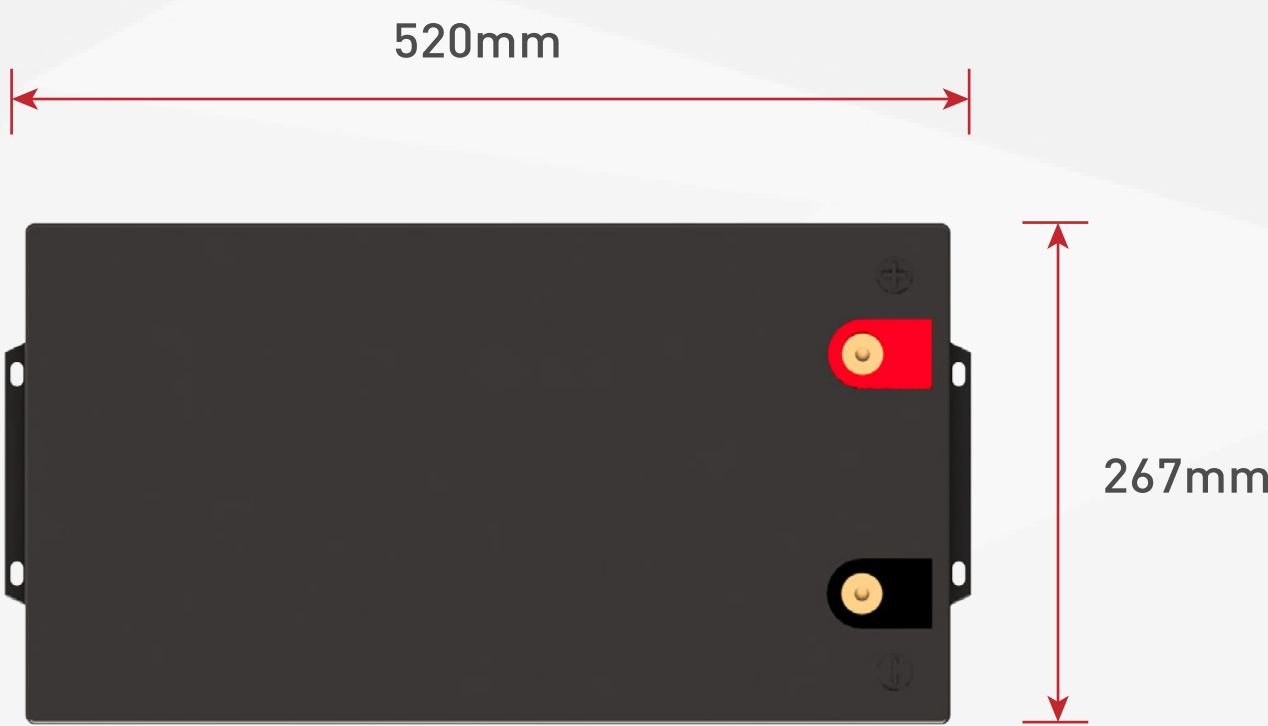
- **Cell match:**
More strict cell matching standard, the difference of Internal resistance is 1mΩ and voltage is 5mV.
- **Automatic cells welding:**
Cells are assembled by Automatic welding equipments to ensure the quality reliability and consistency.
- **100% Cycle test:**
All battery packs are 100%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



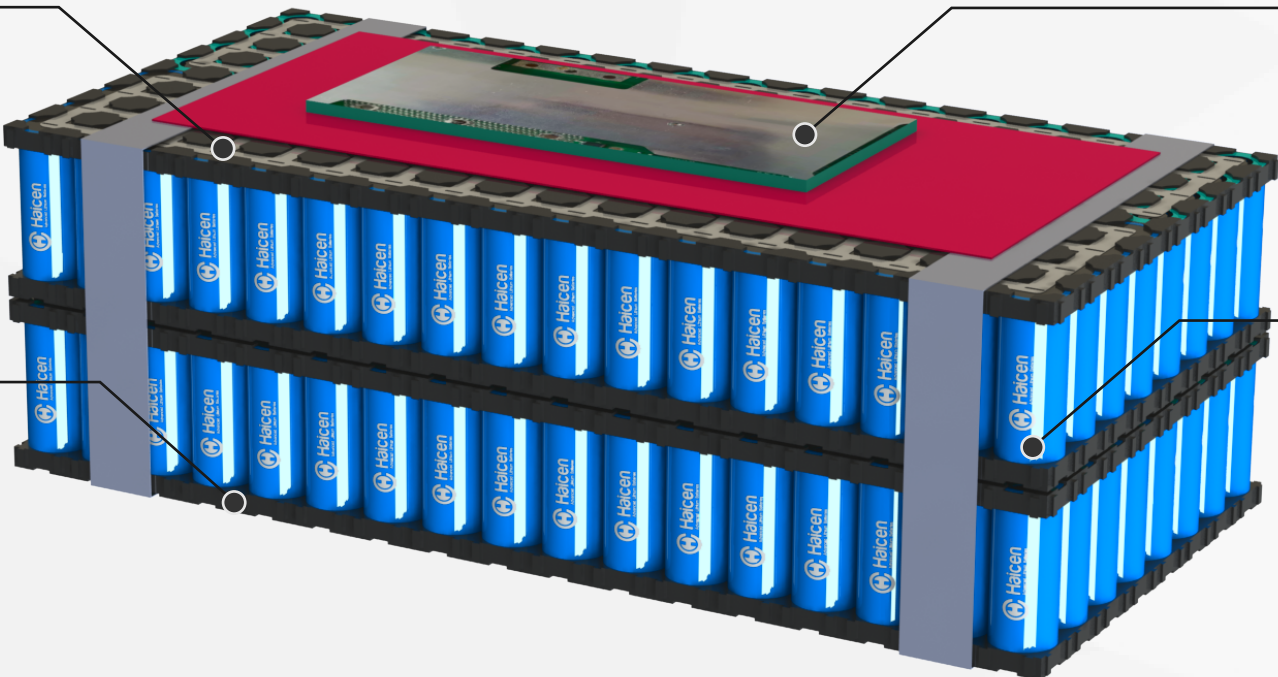
Internal Structure:

Molded Nickel sheet

Molded Plastic cell holder

BMS

Cell

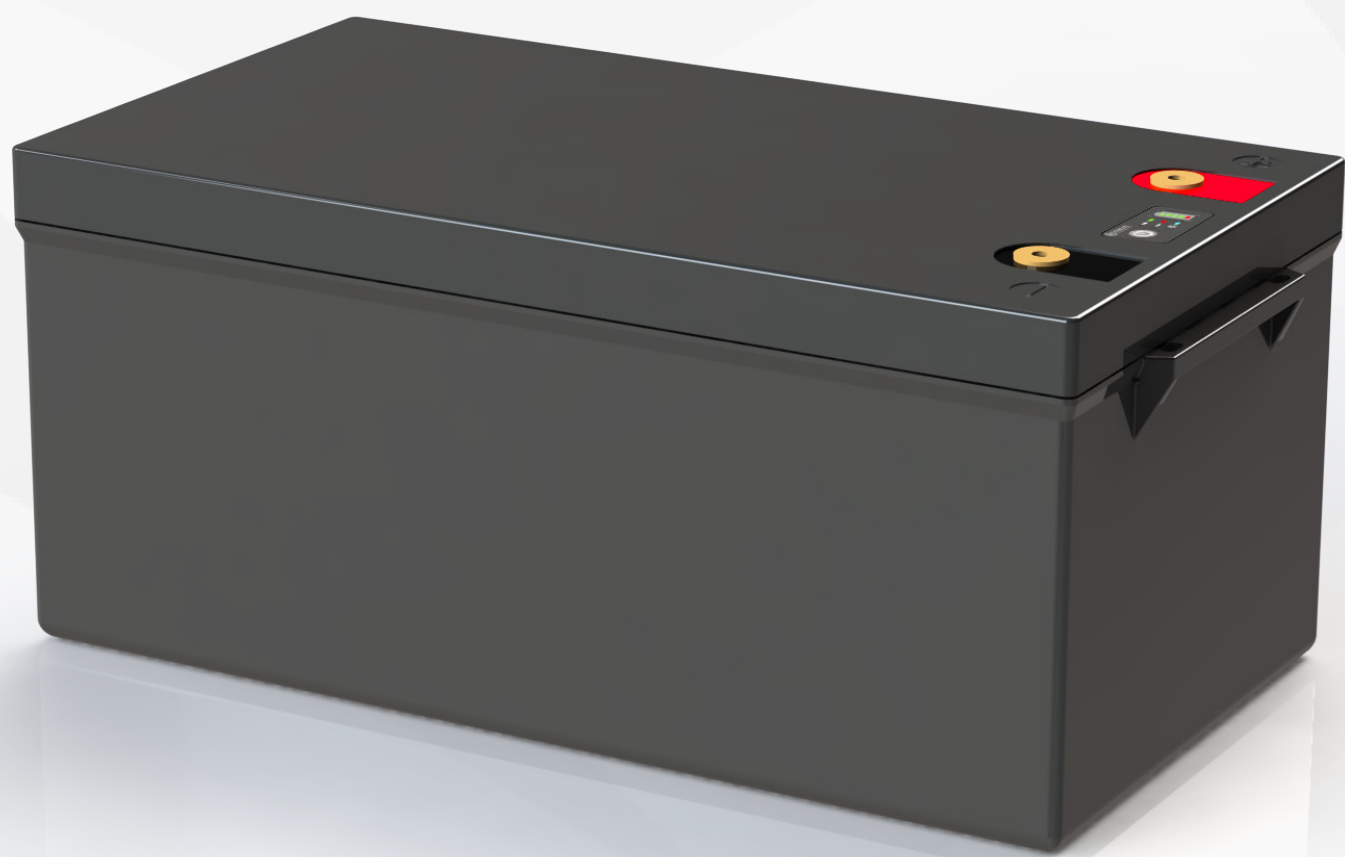


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SOC Display (optional)



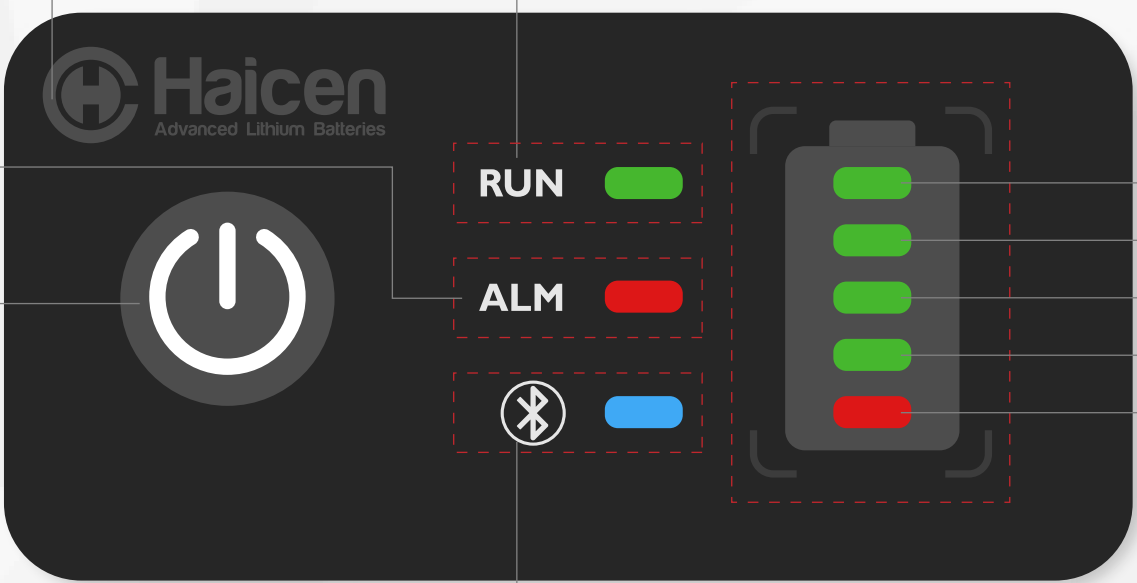
ALM

Alarming
The red LED will flash when the battery sends an alarm.

Customized logo is acceptable.

RUN

Working status of the battery
The green LED will be on when charging or discharging.



SOC (State of Charge)

100% SOC (Full Charge)
80% SOC
60% SOC
40% SOC
20% SOC

Switch

1. With the standby state, touch the "Switch" key, then the SOC LED will be on to show the current SOC and the RUN LED will be on. After 5s later, all LEDs in panel will turn off.
2. Press and hold the switch for 3s, then the BMS will immediately go to Sleep mode. With the Sleep state, press on the "Switch" key for 3s, then the BMS will wake up.

Bluetooth

Bluetooth connection status
The blue LED will be on when the battery is connected to Bluetooth.

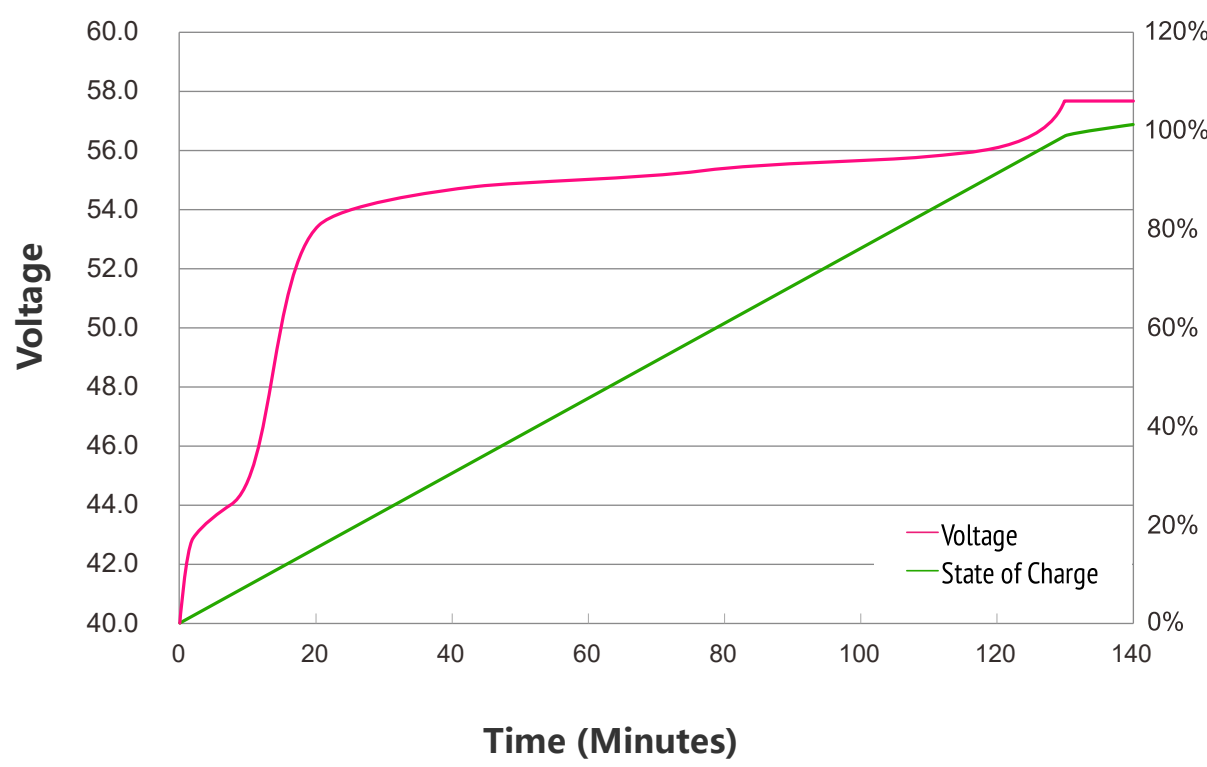
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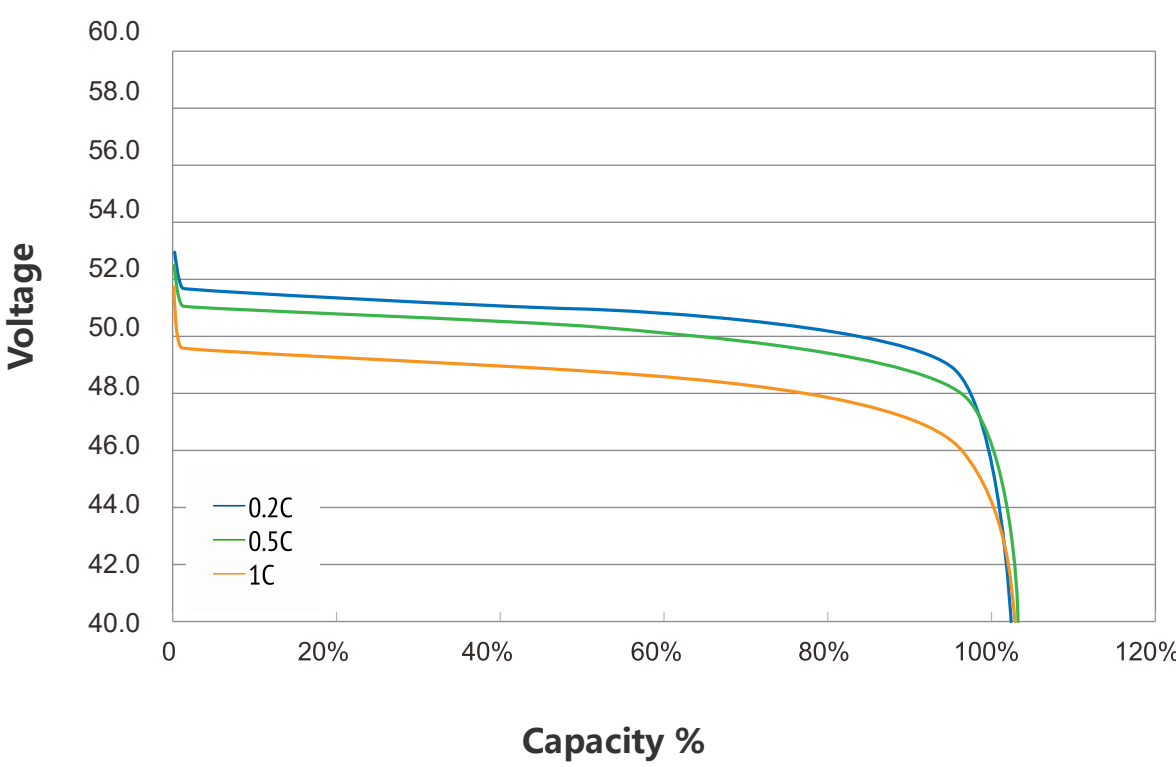


Characteristics Curve:

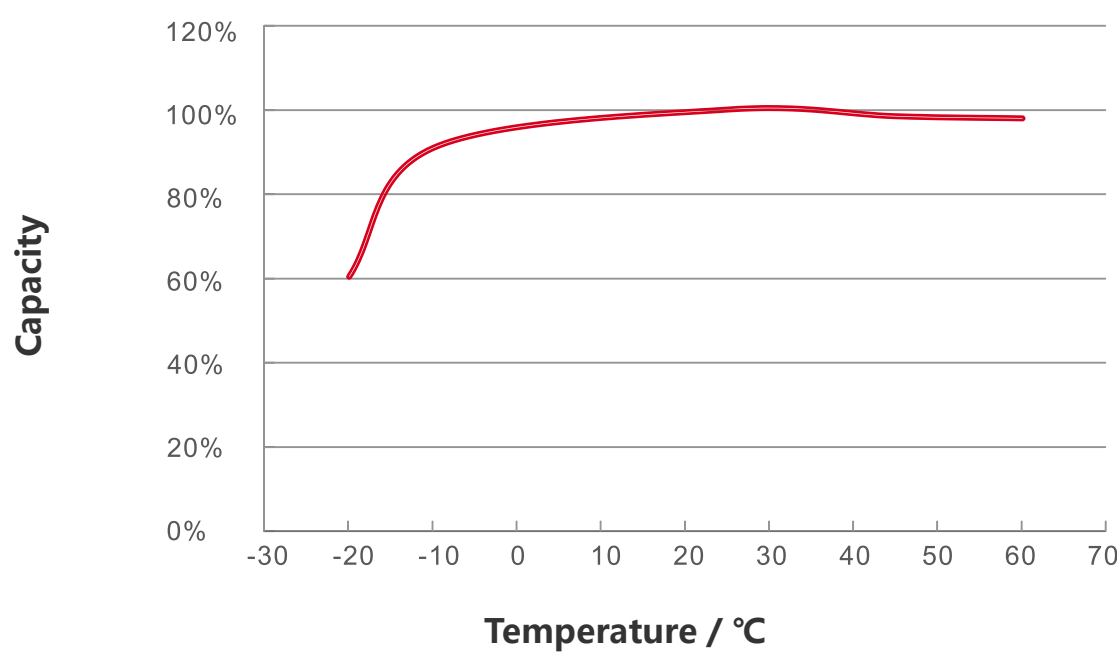
Charging Characteristics (0.5C @25°C)



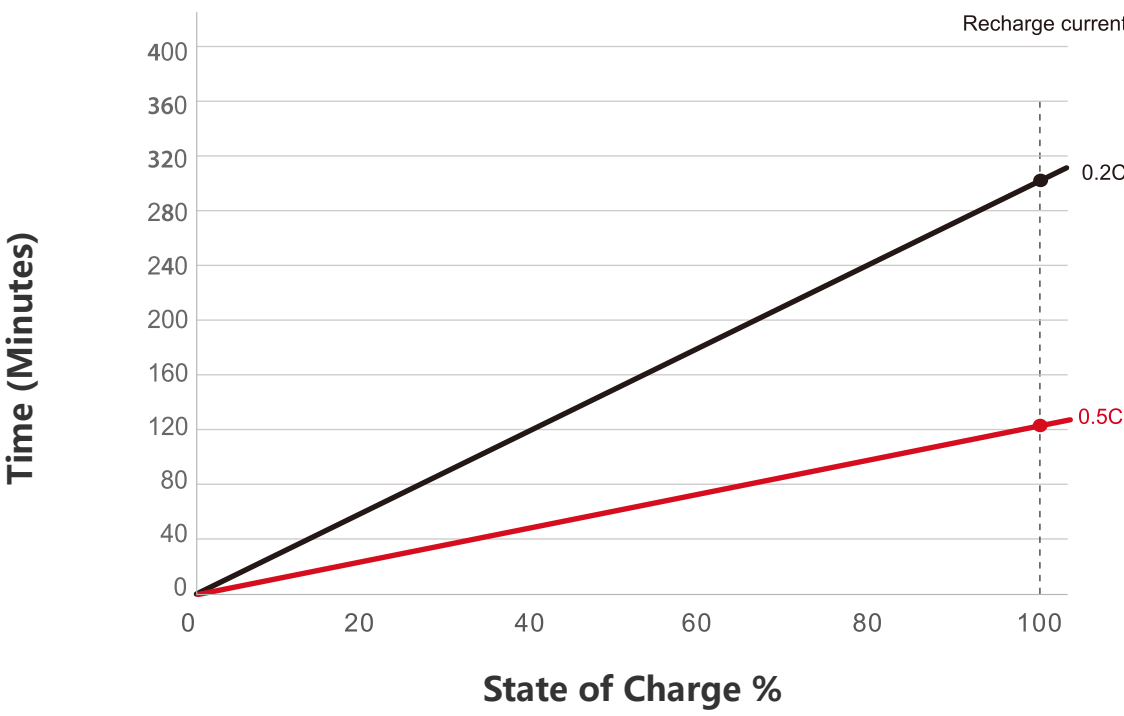
Discharging Characteristics (0.2C, 0.5C, 1C @25°C)



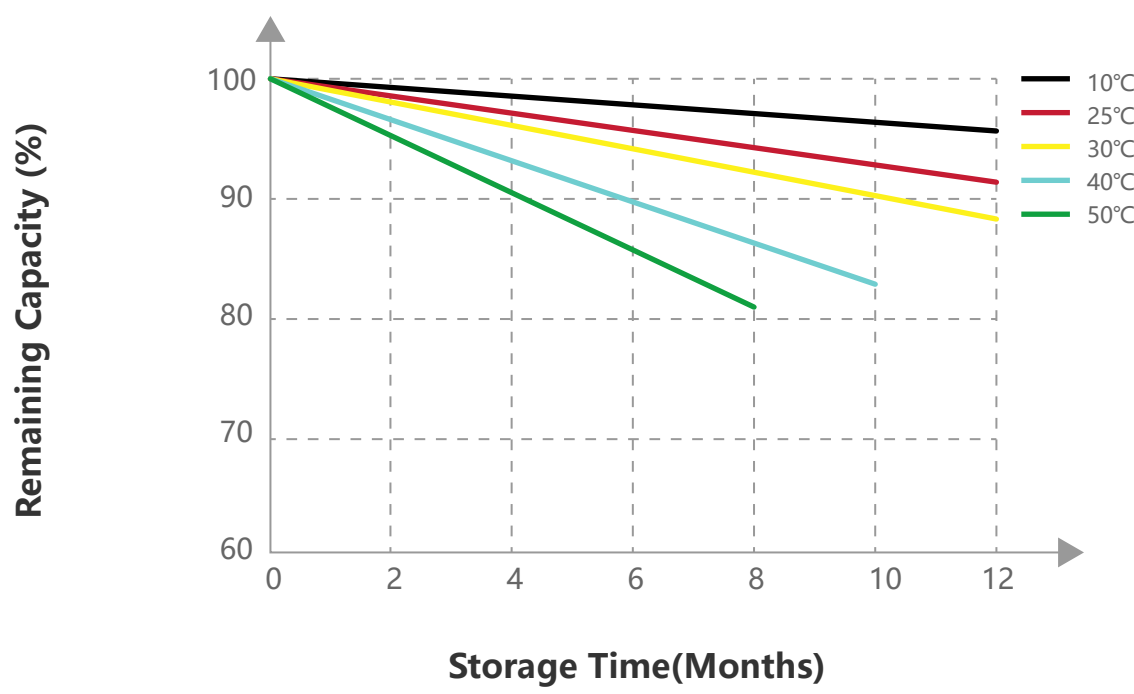
Different Temperature Capacity Curve



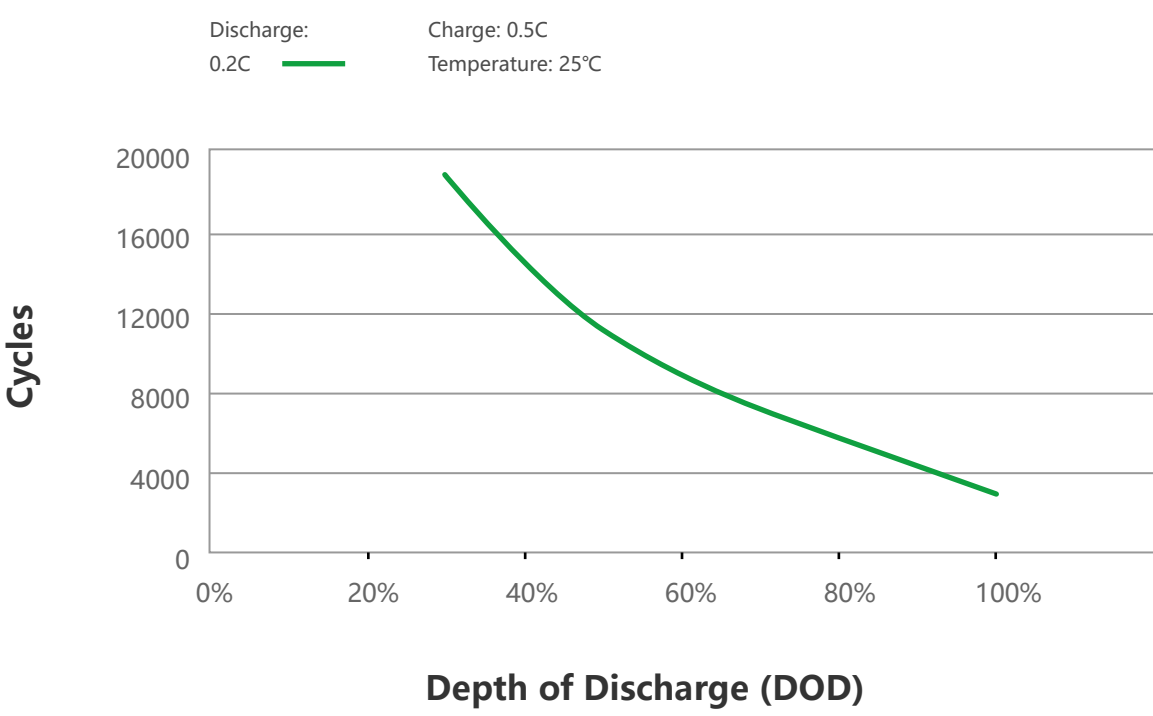
Typical Charge Time Curve



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:**
Equip with 200A BMS, can deliver more power during device's uphill operation, smoother your task.
- **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.
- **Higher capacity based on same size:**
Based on Group 8D size and cell holder, our capacity 105Ah is 30% higher than others without much higher weight.

Market Applications:



Golf cart



Marine



RV



Light EV



Energy storage



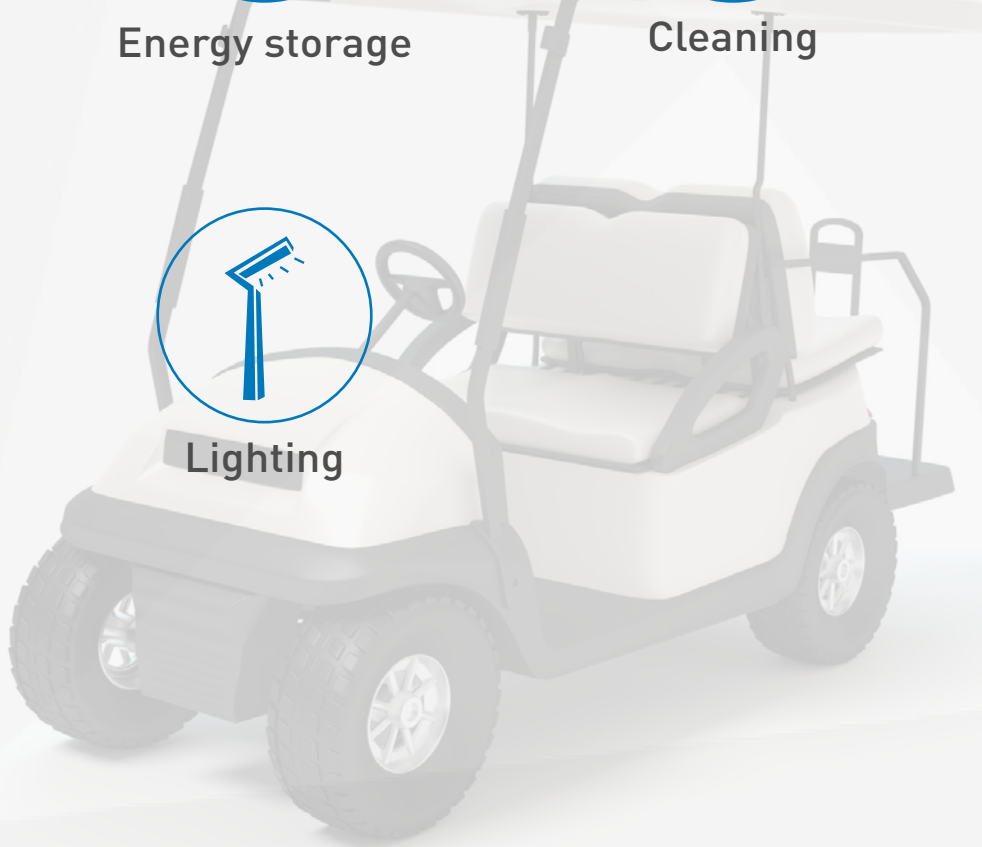
Cleaning



Robotics



Lighting



Package:

20' Container=10Pallets=250Cartons=250Units;
40' Container=20Pallets=500Cartons=500Units;



Internal Package
Forming pearl foam

1Carton=1Unit



Weight: 42Kg/carton
Size(L×W×H): 600×320×310mm

1Pallet=25Cartons



Weight: 1065Kg/pallet
Size(L×W×H)=1.2×1×1.75m ≈ 2CBM

Customized items:

- **Bluetooth App design:** Help you to design and upload customized App, or supply you our Source code for your design.
- **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.