# HCG-4DS Series Data sheet



36V 100Ah | 36V 120Ah | \*Bluetooth



# Model Included:

HCG4DS-36100BT 36V 100Ah LiFePO4 Battery with Bluetooth

HCG4DS-36120BT 36V 120Ah LiFePO4 Battery with Bluetooth

(A): Haic	<b>e</b> 0	Model	
Advanced Lithium	Batteries	HCG4DS-36100BT	HCG4DS-36120BT
Electrical Specifications	Nominal Voltage	36V	36V
	Nominal Capacity	100Ah	120Ah
	Parallel Connection	Max. 6units	Max. 6units
	Serial Connection	NO	NO
	BMS	12S100A	12S100A
	Bluetooth	Android/IOS	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	43.2±0.6V	43.2±0.6V
	Standard Current	20A	24A
	Fast Current	50A	60A
Discharge Specifications	Standard Current	20A	24A
	Max. Con. Current	100A	100A
	Peak Current	700A(300ms)	700A(300ms)
	Cut-off Voltage	30V	30V
Mechanical Specifications	Dimensions (mm)	521 x 238 x 218mm (G4D)	
	Approx Weight(KG)	31	33
	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)





# **Key Points for Quality control:**

36V 100Ah | 36V 120Ah | \*Bluetooth

#### Cell match:

More strict cell matching standard, the difference of Internal resistance is  $1m\Omega$  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:**

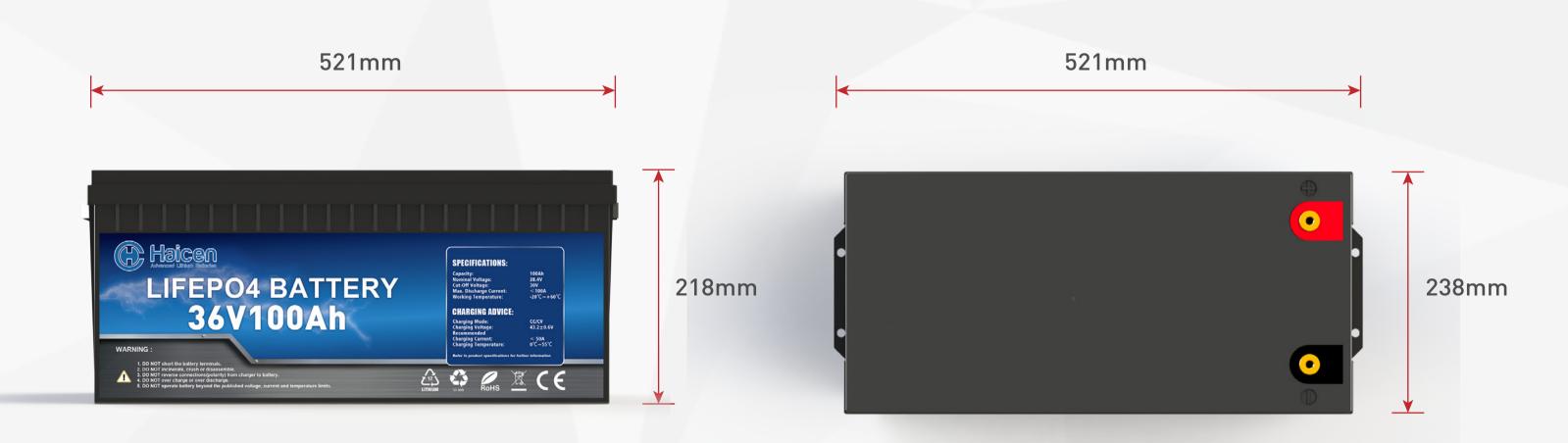
- UL1642 (Cell)
- CE (Pack)
- **IEC62133 (Cell)**
- UN38.3 (Cell / Pack)
- **IEC62619 (Cell)**
- ROHS (Cell)







### **Dimensions:**



# **Internal Structure:**





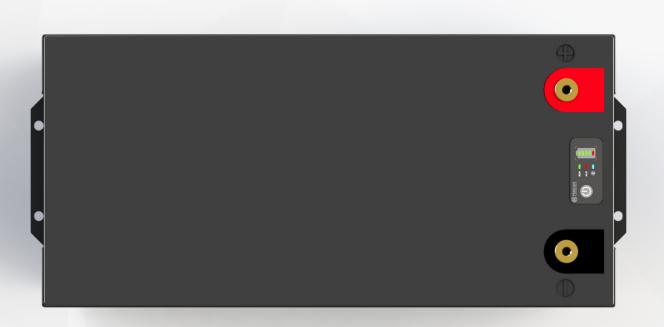
# HCG-4DS Series Data sheet

36V 100Ah | 36V 120Ah | \*Bluetooth



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.

# RUN **ALM**

### **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

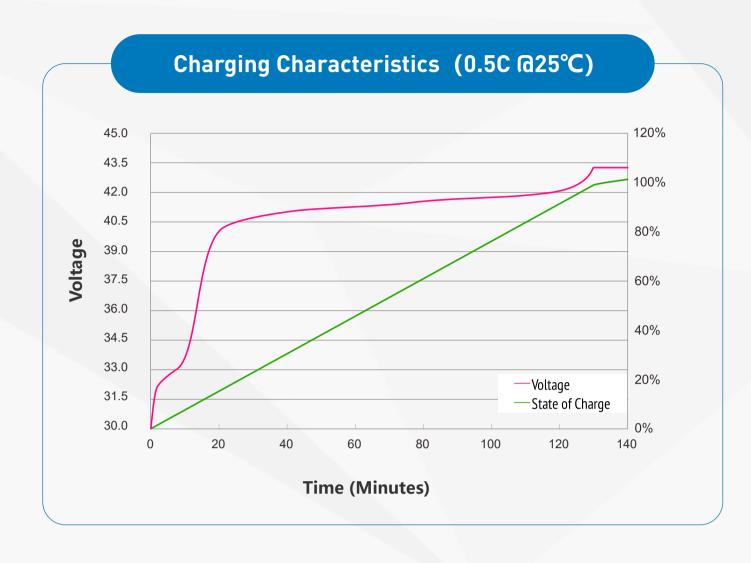
The blue LED will be on when the battery is connected to Bluetooth.

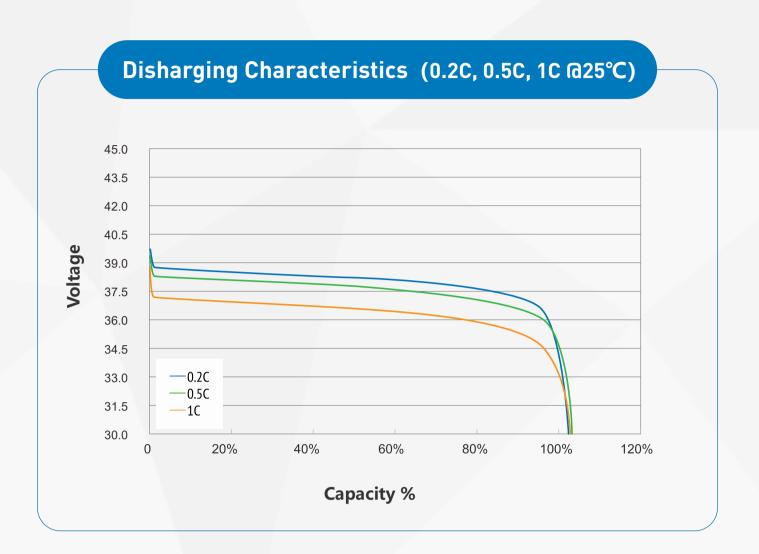


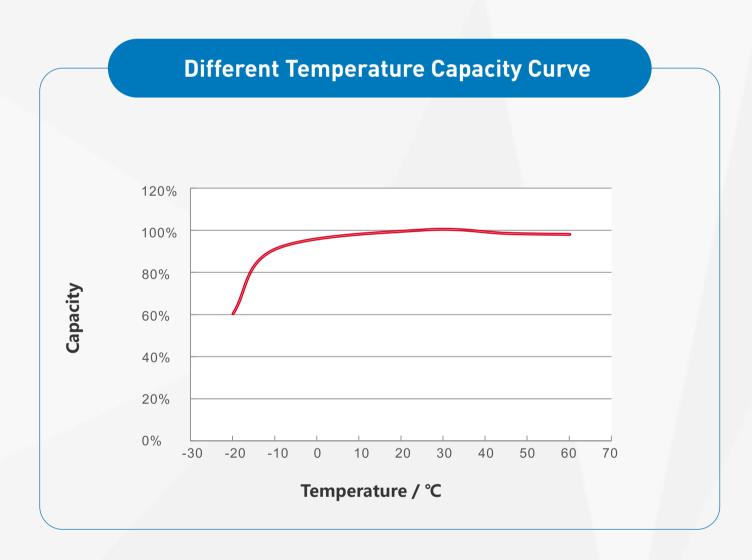


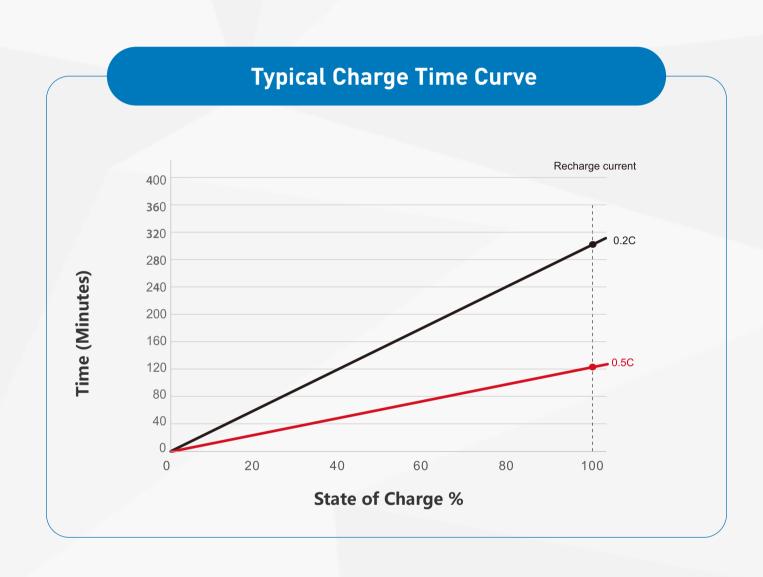
36V 100Ah | 36V 120Ah | \*Bluetooth

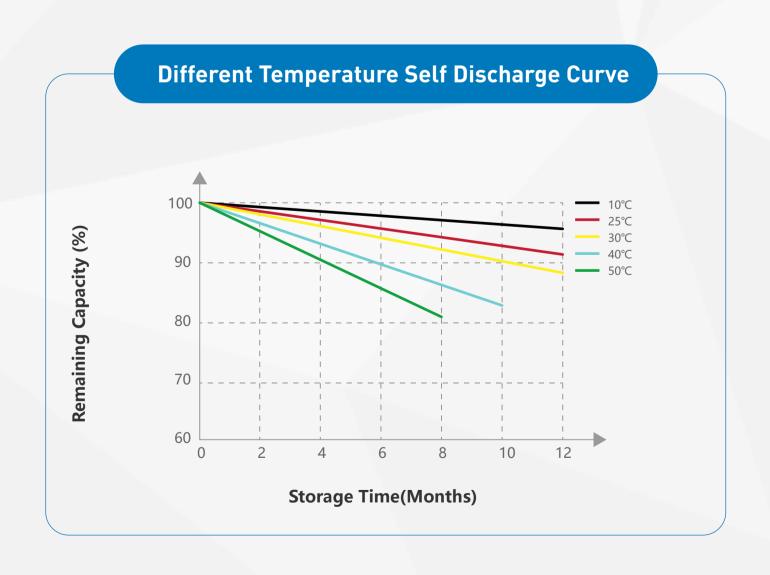
### **Characteristics Curve:**

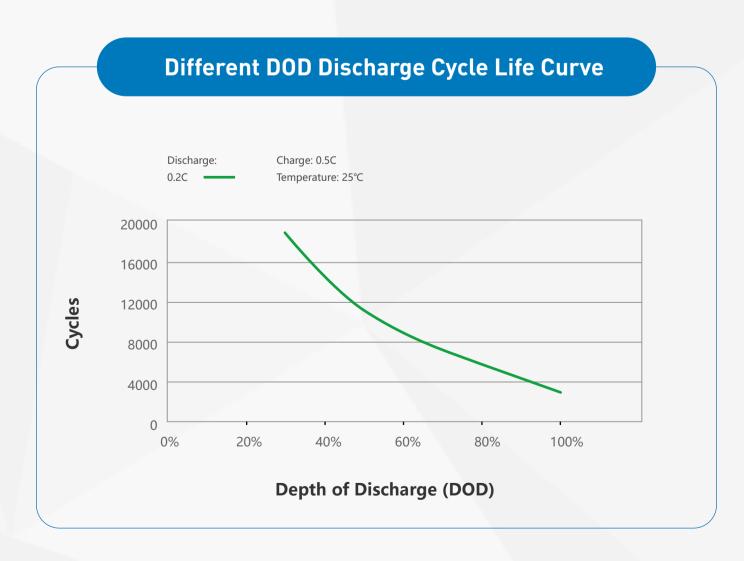














36V 100Ah | 36V 120Ah | \*Bluetooth



# **Key Benefits:**

#### Higher qualified cylindrical cell:

UL1642, IEC62619, IEC62133 listed with Cycle life more than 3000times and excellent consistency.

#### Bluetooth:

can monitor the battery status(charge, discharge, current, temperature, cycle life and so on) and change the data for different applications.

#### Heat:

Uniform internal heating is an important feature of our cold-weather performance batteries, as many external heating blanket options currently available cannot sense the internal temperature of the cells and may not be completely effective at heating the battery throughout. The system features proprietary technology that draws power from the charger itself, requiring no additional components. The entire process of heating and charging is completely seamless. Simply plug the battery into the regular lithium charger and the internal heating and monitoring system takes care of the rest.

#### 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 36V 100Ah battery from other suppliers.

# **Market Applications:**







Marine





Cleaning



Golf cart



**Energy storage** 







Robotics

# Package:

20' Container=10Pallets=360Cartons=360Units;

40' Container=20Pallets=720Cartons=720Units;



# **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.

