HCG-8DS Series Data sheet

12V 300Ah

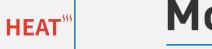
12V 350Ah

12V 380Ah | | * Bluetooth |

HEAT"







Model Included:

HCG8DS-12300BT 12V 300Ah LiFePO4 Battery with Bluetooth

12V 300Ah LiFePO4 Battery with HCG8DS-12300BH Bluetooth and Heat (cold-weather performance battery)

HCG8DS-12350BT 12V 350Ah LiFePO4 Battery with Bluetooth

12V 350Ah LiFePO4 Battery with HCG8DS-12350BH Bluetooth and Heat (cold-weather performance battery)

HCG8DS-12380BT 12V 380Ah LiFePO4 Battery with Bluetooth

12V 380Ah LiFePO4 Battery with HCG8DS-12380BH Bluetooth and Heat (cold-weather performance battery)

(A): Haicer	Haicen Advanced Lithium Batteries							
Advanced Lithium Batter			HCG8DS-12300BH	HCG8DS-12350BT	HCG8DS-12350BH	HCG8DS-12380BT	HCG8DS-12380BH	
Liettiitat	Nominal Voltage	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V	
Specifications	Nominal Capacity	300Ah	300Ah	350Ah	350Ah	380Ah	380Ah	
	Parallel Connection	Max. 6units	Max. 6units	Max. 6units	Max. 6units	Max. 6units	Max. 6units	
	Serial Connection	Max. 4units	Max. 4units	Max. 4units	Max. 4units	Max. 4units	Max. 4units	
	BMS	4S200A	4S200A	4S200A	4S200A	4S200A	4S200A	
	Bluetooth	Android/IOS	Android/IOS	Android/IOS	Android/IOS	Android/IOS	Android/IOS	
	Heat	No	Yes	No	Yes	No	Yes	
	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	Charge Voltage	14.4±0.2V	14.4±0.2V	14.4±0.2V	14.4±0.2V	14.4±0.2V	14.4±0.2V	
Specifications	Standard Current	60A	60A	70A	70A	76A	76A	
	Fast Current	150A	150A	175A	175A	190A	190A	
Distilling 6	Standard Current	60A	60A	70A	70A	76A	76A	
Specifications	Max. Con. Current	200A	200A	200A	200A	200A	200A	
	Peak Current	800A(300ms)	800A(300ms)	800A(300ms)	800A(300ms)	800A(300ms)	800A(300ms)	
	Cut-off Voltage	10V	10V	10V	10V	10V	10V	
Mechanical	Dimensions (mm)		521×267×220mm (Group 8D)					
Specifications	Approx Weight(KG)	33	34	34.5	35.5	34.5	35.5	
	Terminal Type	M8						
	Case Color/material Black Plastic case (ABS)							
	IP Rating	IP65 Cylinder LiFePO4 cell Yes						
	Cell Type							
	Cell holder							
Temperature	Charge Temp	0°C to 55°C (32°F to 131°F)	-20°C to 55°C (-4°F to 131°F)	0°C to 55°C (32°F to 131°F)	-20°C to 55°C (-4°F to 131°F)	0°C to 55°C (32°F to 131°F)	-20°C to 55°C (-4°F to 131°F)	
Specifications	Charge Temp Discharge Temp	0°C to 55°C (32°F to 131°F)	(-4°F to 131°F)	0°C to 55°C (32°F to 131°F) 20°C to 60°C	-20°C to 55°C (-4°F to 131°F) (-4°F to 140°	(32°F to 131°F)	-20°C to 55°C (-4°F to 131°F)	



[12V 380Ah][**∦Bluetooth**][

HEAT"



Key Points for Quality control:

[12V 350Ah][

Cell match:

12V 300Ah

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)

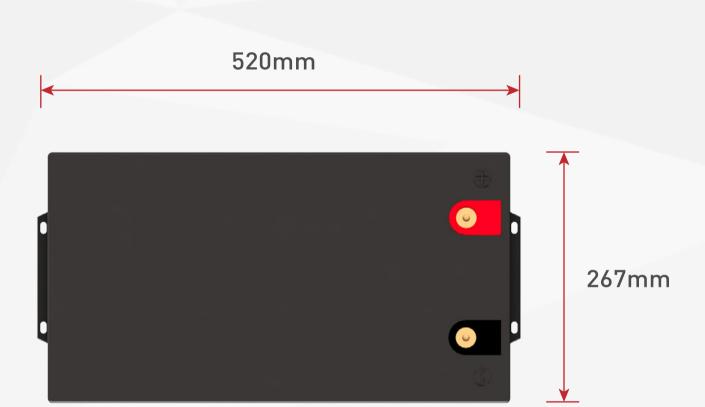




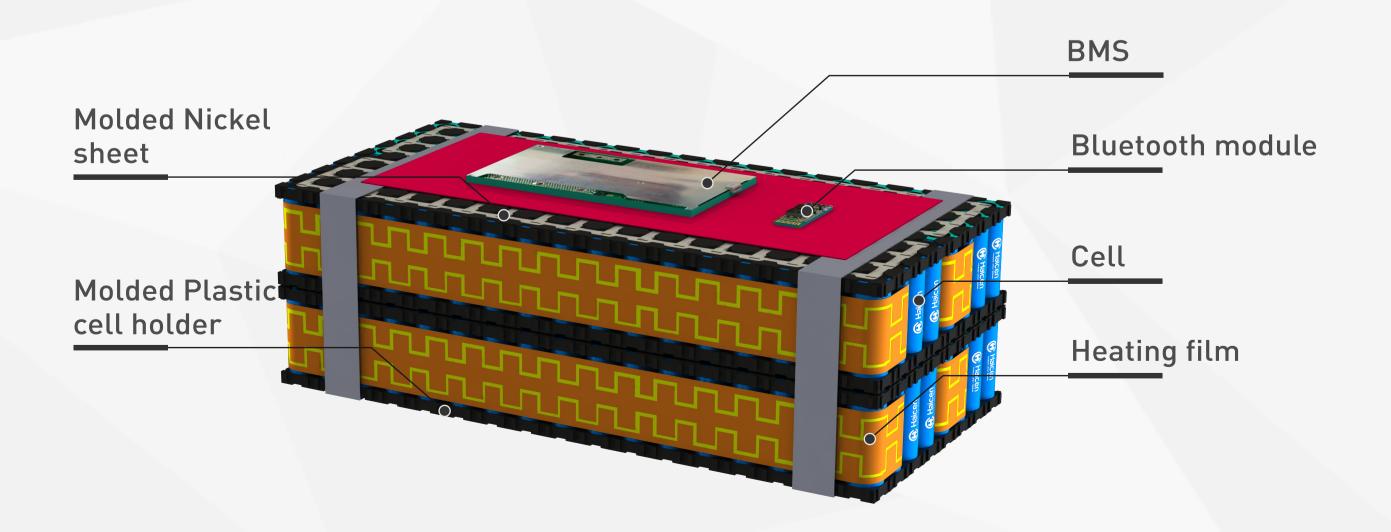


Dimensions:





Internal Structure:





HCG-8DS Series Data sheet

12V 300Ah

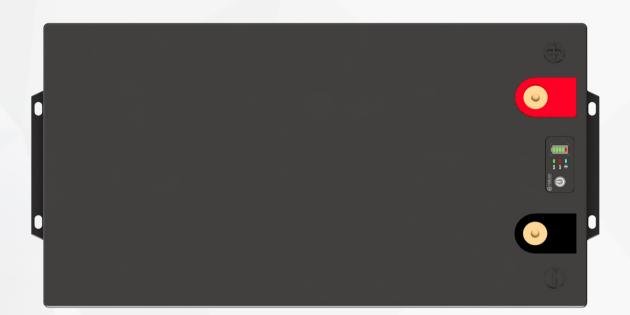
12V 350Ah 12V 380Ah ***Bluetooth**

HEAT



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.

12V 380Ah] [* Bluetooth]

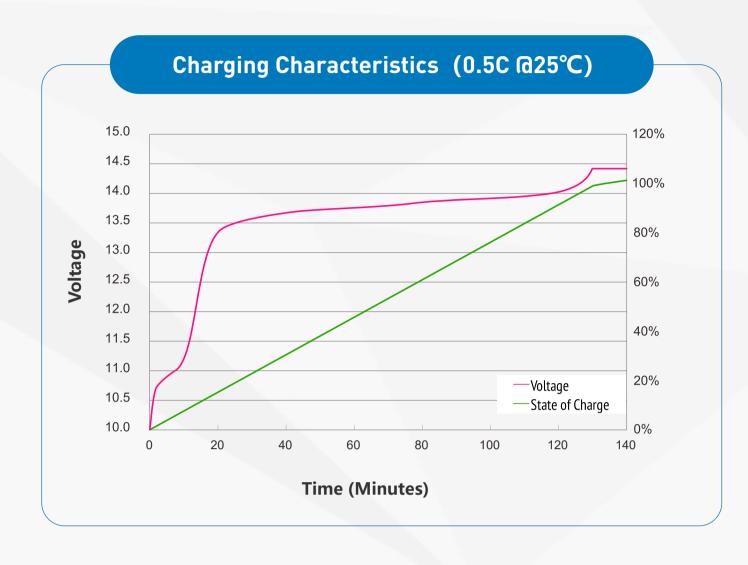
HEAT"

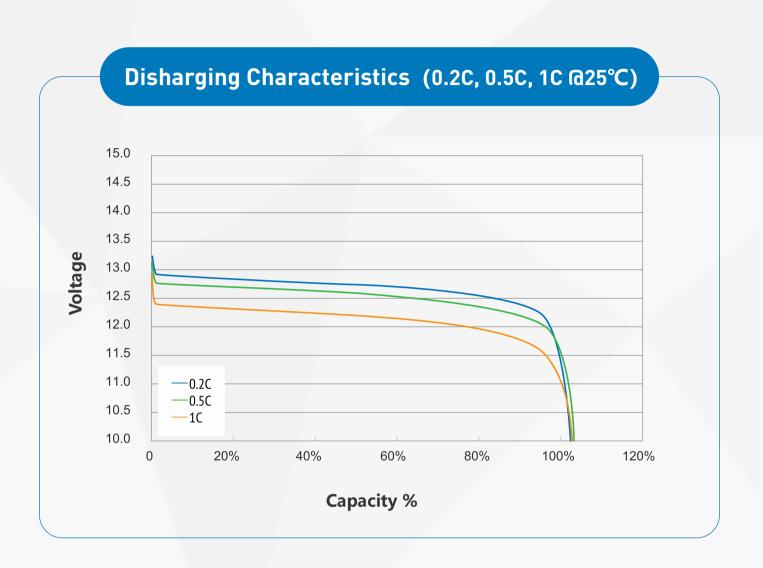


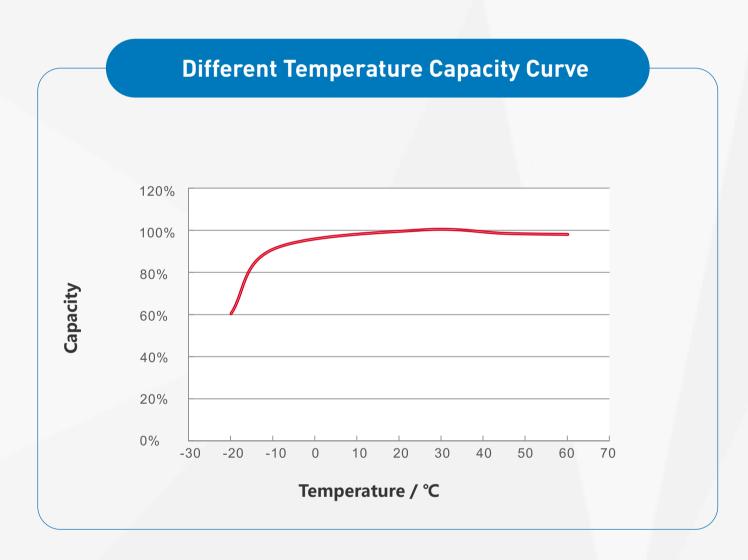
Characteristics Curve:

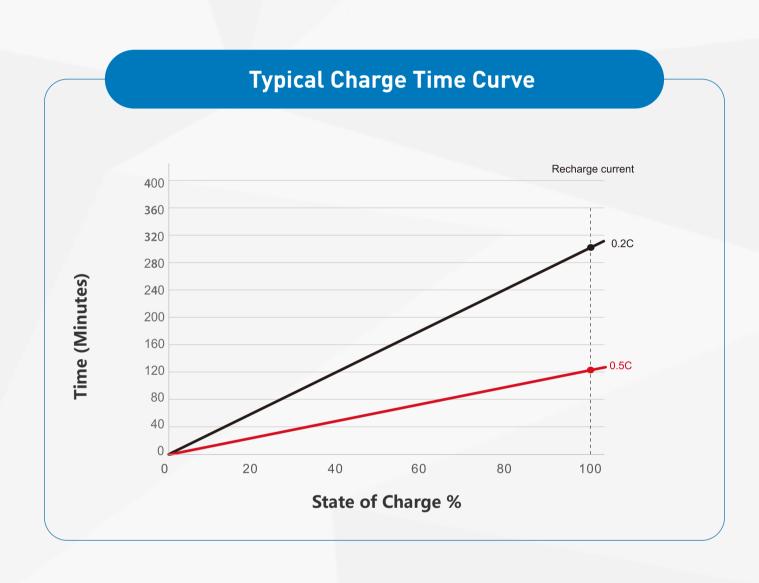
12V 350Ah

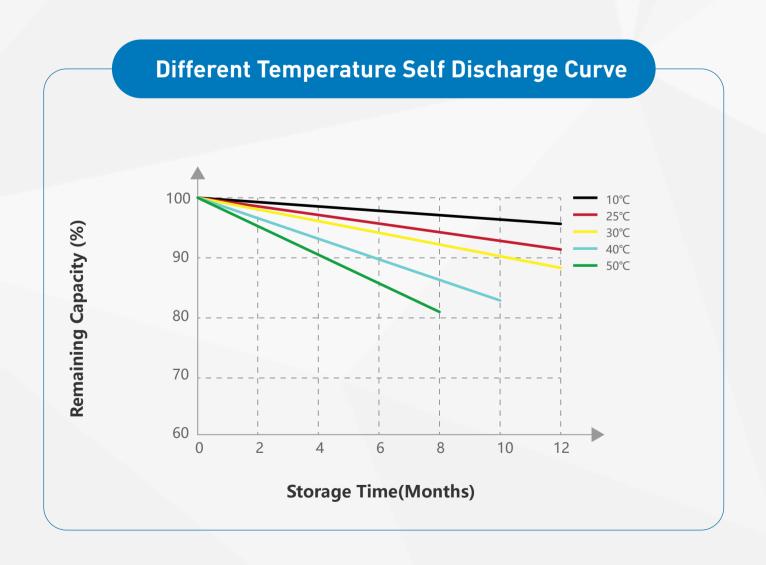
12V 300Ah

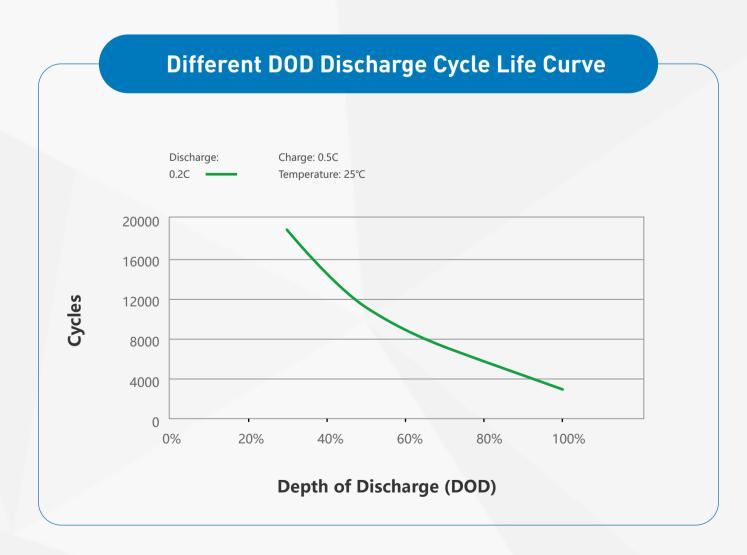














12V 300Ah

12V 350Ah [12V 380Ah][**∦Bluetooth**][

HEAT"



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 12V 300Ah battery from other suppliers.

Market Applications:



RV



Marine



Golf cart



Cleaning



Light EV



Energy storage



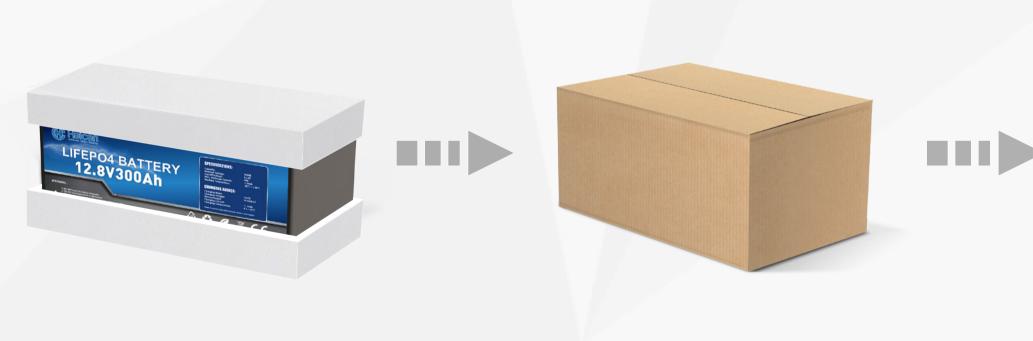
Robotics



Lighting

Package:

- 20' Container=10Pallets=300Cartons=300Units:
- 40' Container=20Pallets=600Cartons=600Units;



1Carton=1Unit

Weight: 35Kg/carton Size(L×W×H): 600×350×310mm



1Pallet=30Cartons

Weight: 1065Kg/pallet $Size(L\times W\times H)=1.2\times 1\times 1.9m\approx 2.3CBM$

Customized items:

Internal Package

Forming pearl foam

- 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.

