

# HCG-8D Series / Data sheet



12V 300Ah

12V 350Ah

24V 150Ah

48V 76Ah



## Model Included:

- HCG8D-12300** 12V 300Ah LiFePO4 Battery
- HCG8D-12350** 12V 350Ah LiFePO4 Battery
- HCG8D-24150** 24V 150Ah LiFePO4 Battery
- HCG8D-36100** 36V 100Ah LiFePO4 Battery
- HCG8D-4876** 48V 76Ah LiFePO4 Battery

		Model				
		HCG8D-12300	HCG8D-12350	HCG8D-24150	HCG8D-36100	HCG8D-4876
<b>Electrical Specifications</b>	Nominal Voltage	12.8V	12.8V	24V	36V	48V
	Nominal Capacity	300Ah	350Ah	150Ah	100Ah	76Ah
	Parallel Connection	Max. 6units	Max. 6units	Max. 6units	Max. 6units	Max. 6units
	Serial Connection	Max. 6units	Max. 6units	Max. 2units	No	No
	BMS	4S200A	4S200A	8S150A	12S60A	16S100A
	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				
<b>Charge Specifications</b>	Charge Voltage	14.4±0.2V	14.4±0.2V	28.8±0.4V	43.2±0.6V	57.6±0.8V
	Standard Current	60A	70A	30A	20A	145A
	Fast Current	150A	175A	75A	50A	38A
<b>Discharge Specifications</b>	Standard Current	60A	70A	30A	20A	15A
	Max. Con. Current	200A	200A	150A	100A	76A
	Peak Current	800A(300ms)	800A(300ms)	600A(300ms)	500A(300ms)	500A(300ms)
	Cut-off Voltage	10V	10V	20V	30V	40V
<b>Mechanical Specifications</b>	Dimensions (mm)	521×267×220mm (Group 8D)				
	Approx Weight(KG)	33	34.5	33.5	33	33.5
	Terminal Type	M8				
	Case Color/material	Black Plastic case (ABS)				
	IP Rating	IP65				
	Cell Type	Cylindrical LiFePO4 cell				
	Cell holder	Yes				
<b>Temperature Specifications</b>	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 300Ah

12V 350Ah

24V 150Ah

48V 76Ah

## Key Points for Quality control:

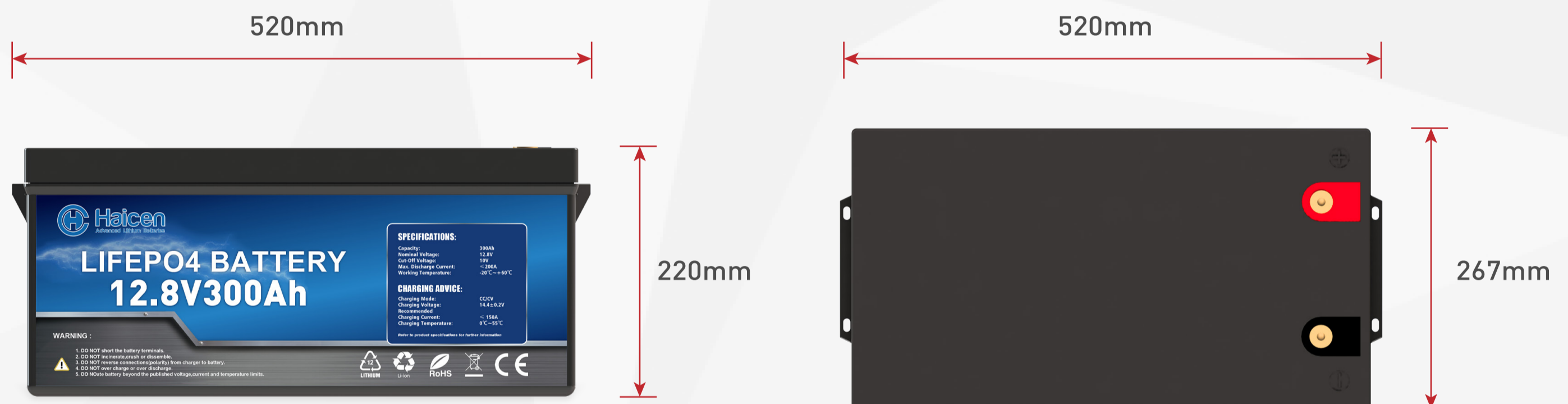
- Cell match:**  
 More strict cell matching standard, the difference of Internal resistance is 1mΩ and voltage is 5mV.
- Automatic cells welding:**  
 Cells are assembled by Automatic welding equipments to ensure the quality reliability and consistency.
- 100% Cycle test:**  
 All battery packs are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

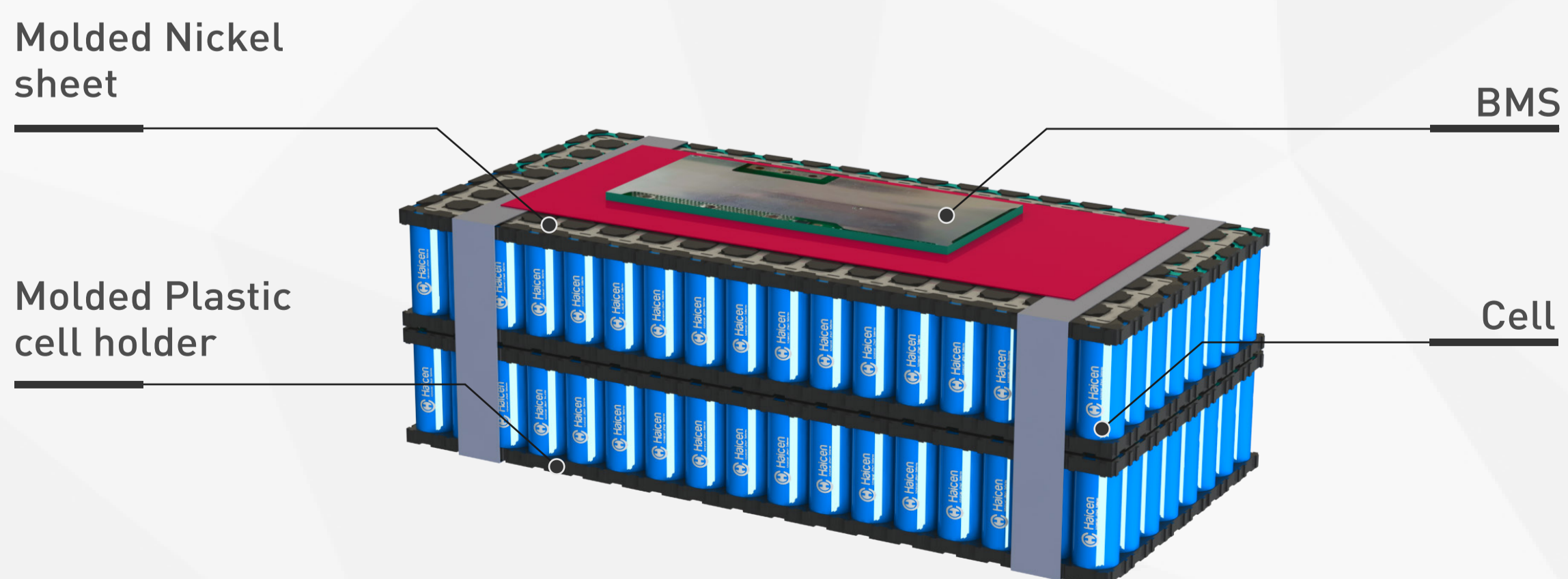
- UL1642 (Cell)
- IEC62133 (Cell)
- IEC62619 (Cell)
- CE (Pack)
- UN38.3 (Cell / Pack)
- ROHS (Cell)



## Dimensions:



## Internal Structure:



12V 300Ah

12V 350Ah

24V 150Ah

48V 76Ah

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



Internal Package  
Forming pearl foam

1Carton=1Unit



Weight: 34Kg/carton  
 Size(L×W×H): 600×350×310mm

1Pallet=25Cartons



Weight: 860Kg/pallet  
 Size(L×W×H)=1.2×1×1.7m ≈ 2CBM

## 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 benefits.