

12V 150Ah | | *Bluetooth

HEAT"







Model Included:

- HC352S-12120BT 12V 120Ah LiFePO4 Battery with Bluetooth
- 12V 120Ah LiFePO4 Battery with HC352S-12120BH Bluetooth and Heat (cold-weather performance battery)
- HC352S-12150BT 12V 150Ah LiFePO4 Battery with Bluetooth
- 12V 150Ah LiFePO4 Battery with HC352S-12150BH Bluetooth and Heat (cold-weather performance battery)

Haicen Advanced Lithium Batteries		Model			
		HC352S-12120BT	HC352S-12120BH	HC352S-12150BT	HC352S-12150BH
Electrical Specifications	Nominal Voltage	12.8V	12.8V	12.8V	12.8V
	Nominal Capacity	120Ah	120Ah	150Ah	150Ah
	Parallel Connection	Max. 6units	Max. 6units	Max. 6units	Max. 6units
	Serial Connection	Max. 4units	Max. 4units	Max. 4units	Max. 4units
	BMS	4S150A	4S150A	4S150A	4S150A
	Bluetooth	Android/IOS	Android/IOS	Android/IOS	Android/IOS
	Heat	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 Specifications	Charge Voltage	14.4±0.2V	14.4±0.2V	14.4±0.2V	14.4±0.2V
	Standard Current	24A	24A	30A	30A
	Fast Current	60A	60A	75A	75A
Discharge Specifications	Standard Current	24A	24A	30A	30A
	Max. Con. Current	120A	120A	150A	150A
	Peak Current	800A(300ms)	800A(300ms)	800A(300ms)	800A(300ms)
	Cut-off Voltage	10V	10V	10V	10V
Mechanical Specifications	Dimensions (mm)	352x174x189mm			
	Approx Weight(KG)	13	13.5	14	14.5
	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°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)
	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 120Ah

12V 150Ah | | * Bluetooth

HEAT"



Key Points for Quality control:

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)

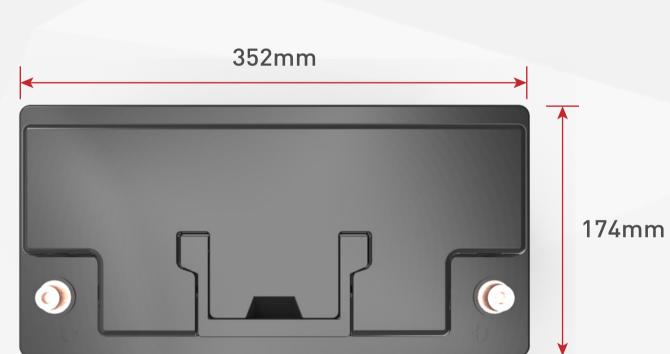




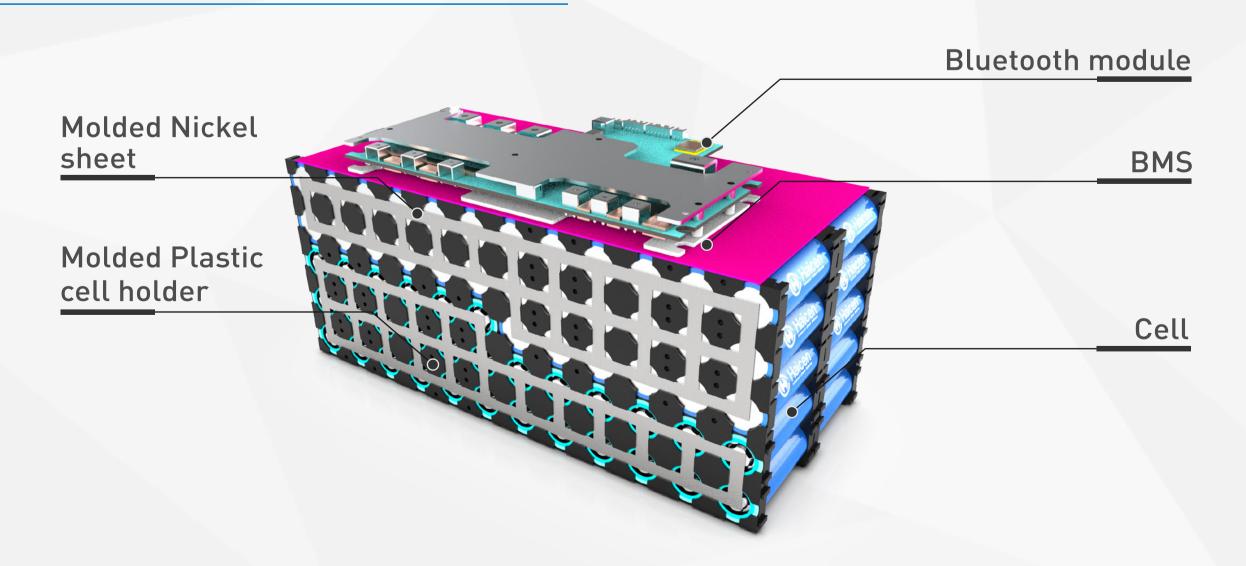


Dimensions:





Internal Structure:







12V 150Ah | | *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.



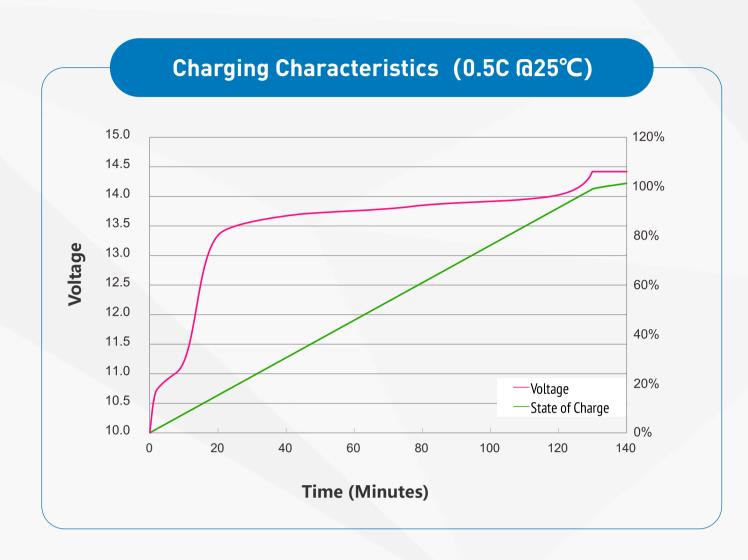
12V 120Ah

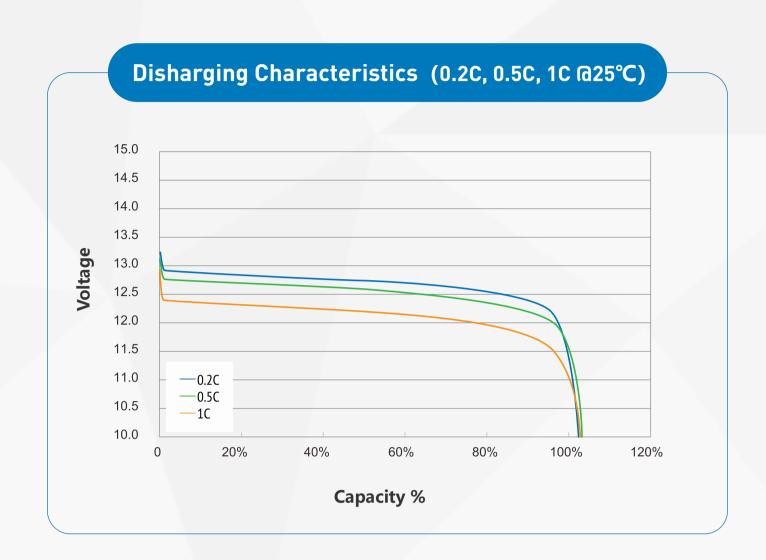
12V 150Ah | * Bluetooth

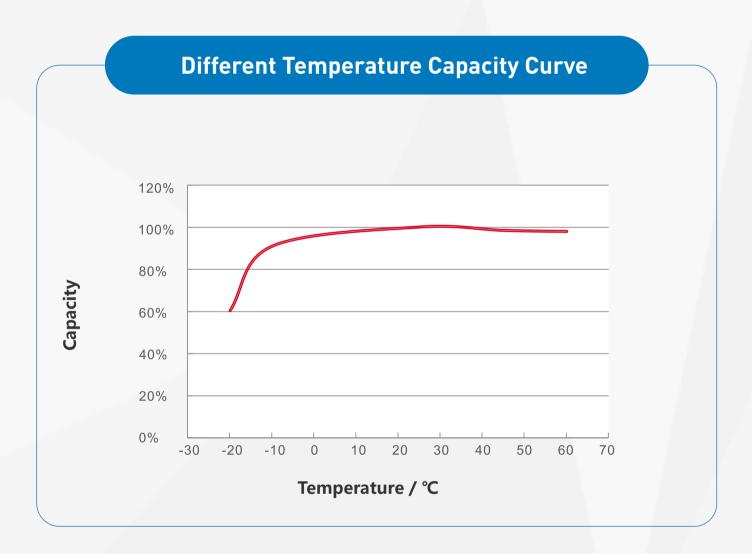


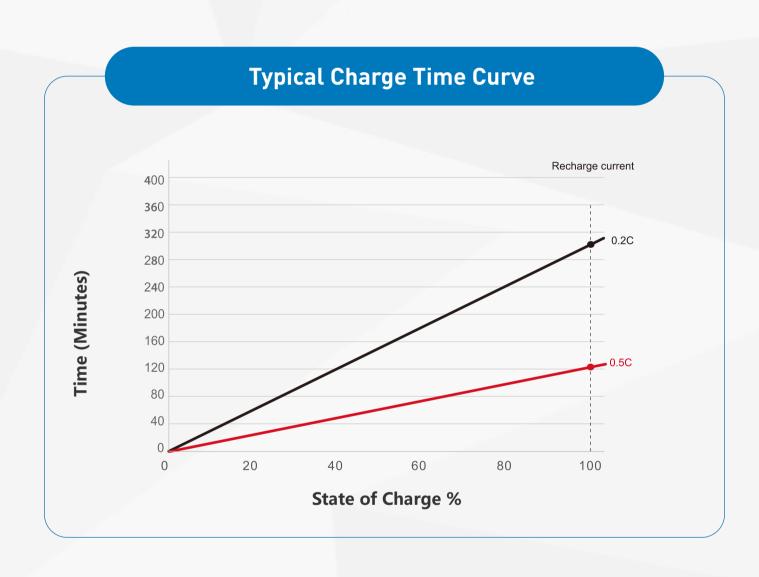


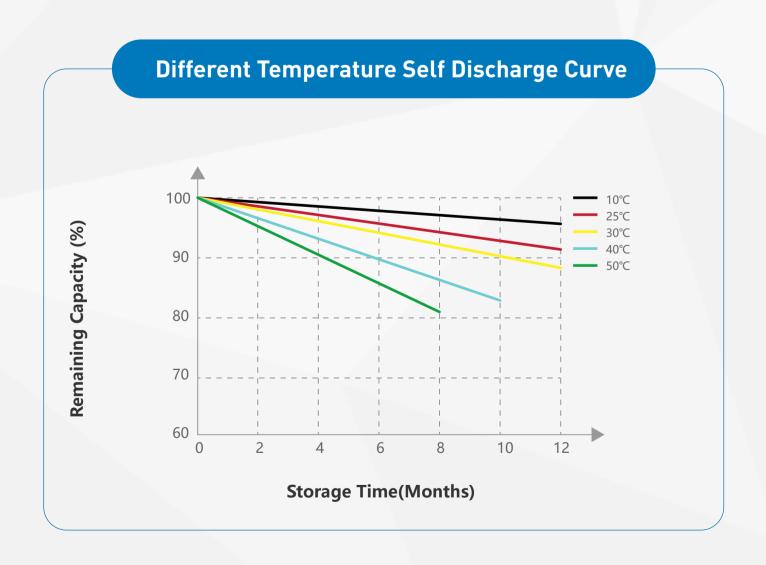
Characteristics Curve:

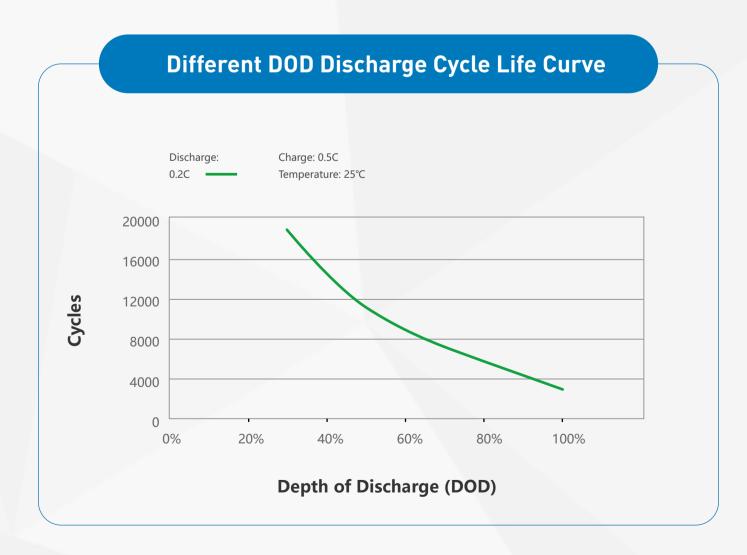














12V 120Ah

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 120Ah battery from other suppliers.

Market Applications:







Marine



Golf cart



Cleaning



Light EV



Energy storage



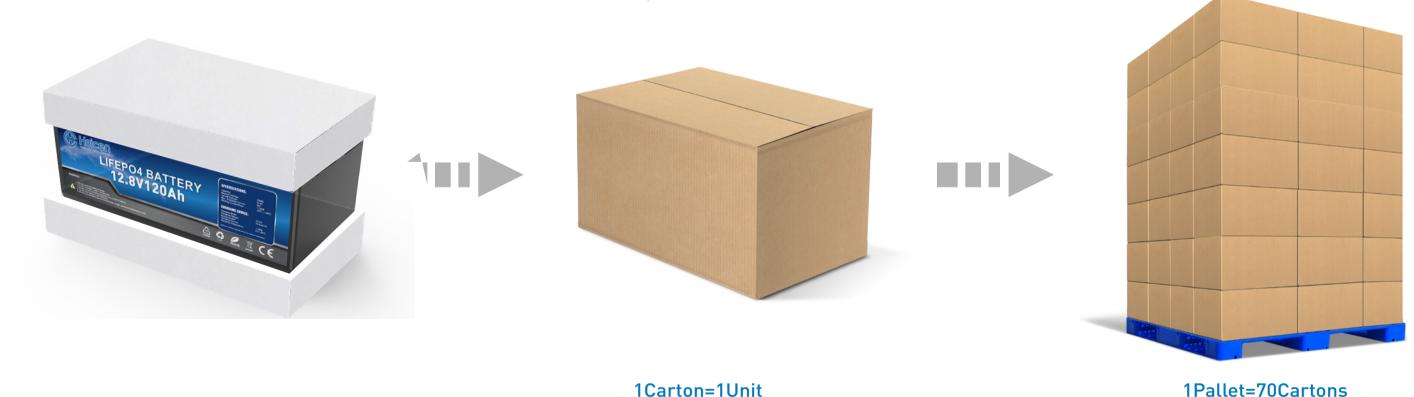
Robotics



Package:

20' Container=10Pallets=700Cartons=700Units;

40' Container=20Pallets=1400Cartons=1400Units;



Internal Package Forming pearl foam

Weight: 14Kg/carton

Size(L×W×H): 420×240×260mm

Weight: 995Kg/pallet

 $Size(L\times W\times H)=1.2\times 1\times 2m\approx 2.4CBM$

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.

