

HC48105 Golf Series

Data sheet

48V 105Ah

Bluetooth




HC Golf-48105BT-A

48V 105Ah LiFePO4 Battery with Bluetooth



HC Golf-48105BT-B

48V 105Ah LiFePO4 Battery with Bluetooth

<div> <b>Haicen</b> Advanced Lithium Batteries</div>		<b>Model</b>	
		<b>HC Golf-48105BT-A</b>	<b>HC Golf-48105BT-B</b>
<b>Electrical Specifications</b>	Nominal Voltage	51.2V	51.2V
	Nominal Capacity	105Ah	105Ah
	Parallel Connection	Max. 4units	Max. 4units
	Serial Connection	No	No
	BMS	16S200A	16S200A
	Bluetooth	Android/IOS	Android/IOS
	Circuit Protection	Over charge, Over discharge, Over current, Over temp, Short, Balance	
	Optional Function	Rs485 ,CAN; LCD; Active balancing module	
	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	57.6±0.8V	
	Standard Current	21A	
	Fast Current	52A	
<b>Discharge Specifications</b>	Standard Current	21A	
	Max. Con. Current	200A	
	Peak Current	900A(100ms)	
	Cut-off Voltage	40V	
<b>Mechanical Specifications</b>	Dimensions (mm)	404×324×250mm	519×250×265mm
	Approx Weight(KG)	45	45
	Terminal Type	M8	
	Case Color/material	Black Metal case	
	IP Rating	IP65	
	Cell Type	Prismatic 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	-20°C to 45°C	(-4°F to 113°F)

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## Key Points for Quality control:

- **Cell match:**  
Much strict than most suppliers, the difference of Internal resistance is 0.2mΩ and voltage is 10mV.
- **Automatic cells welding:**  
Cells are assembled by Automatic laser 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:

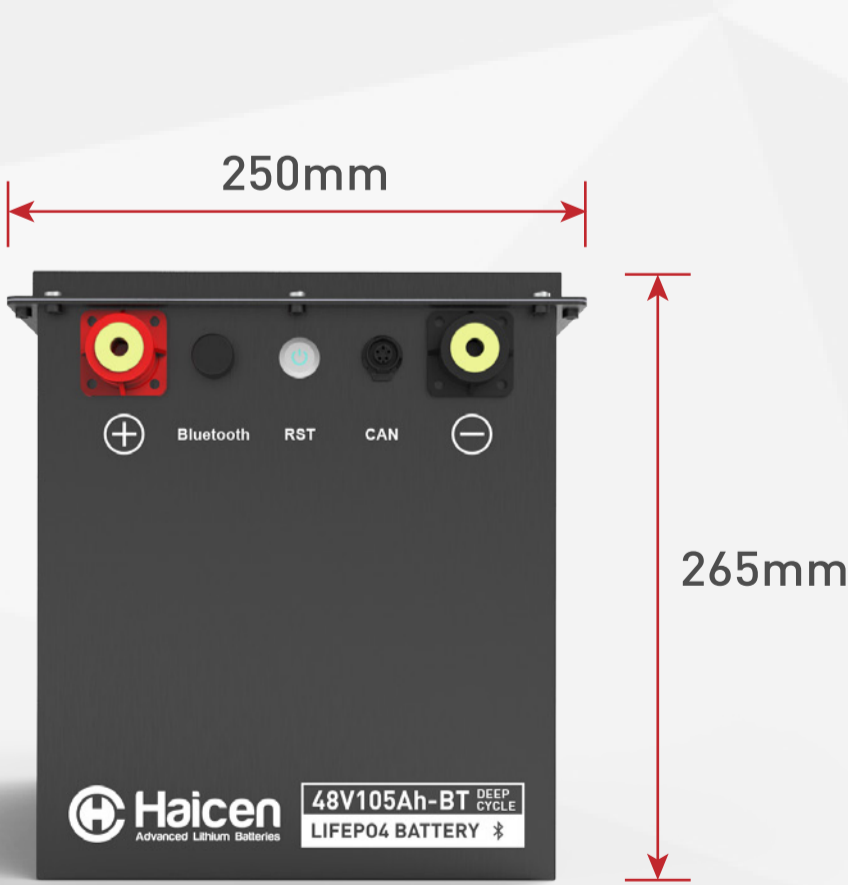
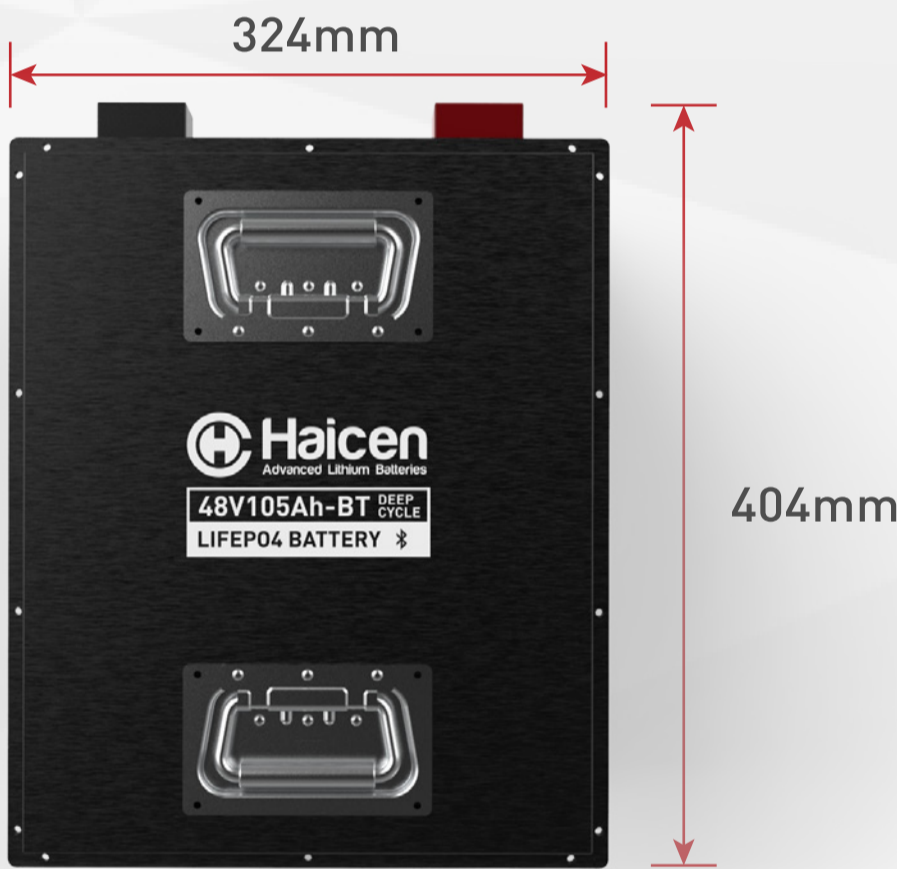
- UL1642 (Cell)
- UL9540 (Cell)
- UL2580 (Cell)
- IEC62619 (Cell)
- CE (Pack)
- UN38.3 (Cell / Pack)
- MSDS (Cell / Pack)



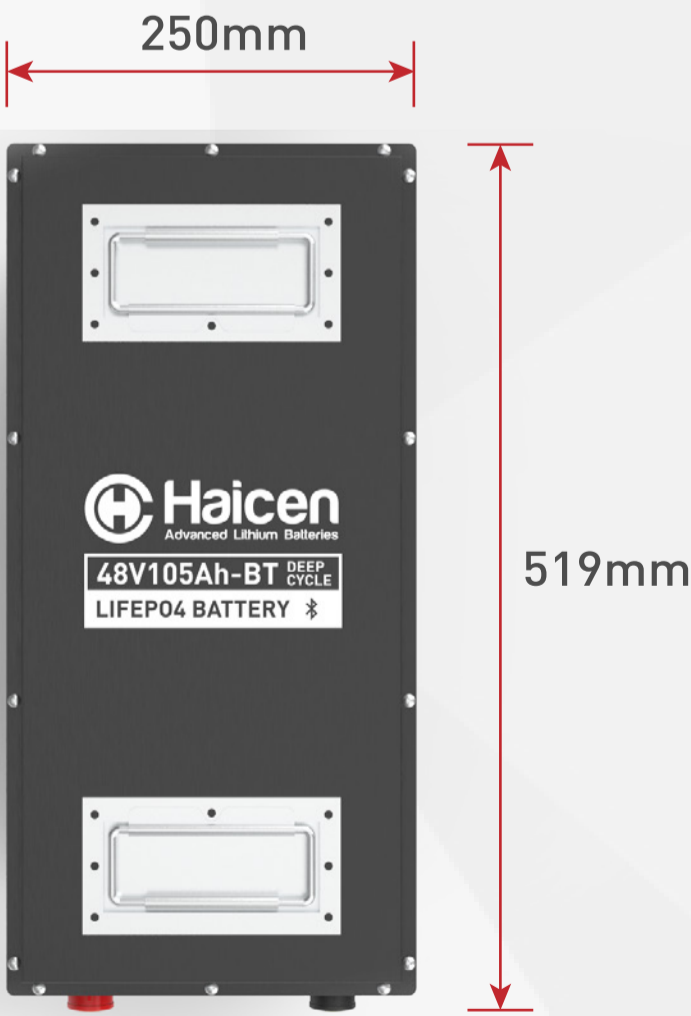
## Dimensions:



HC Golf-48105BT-A



HC Golf-48105BT-B

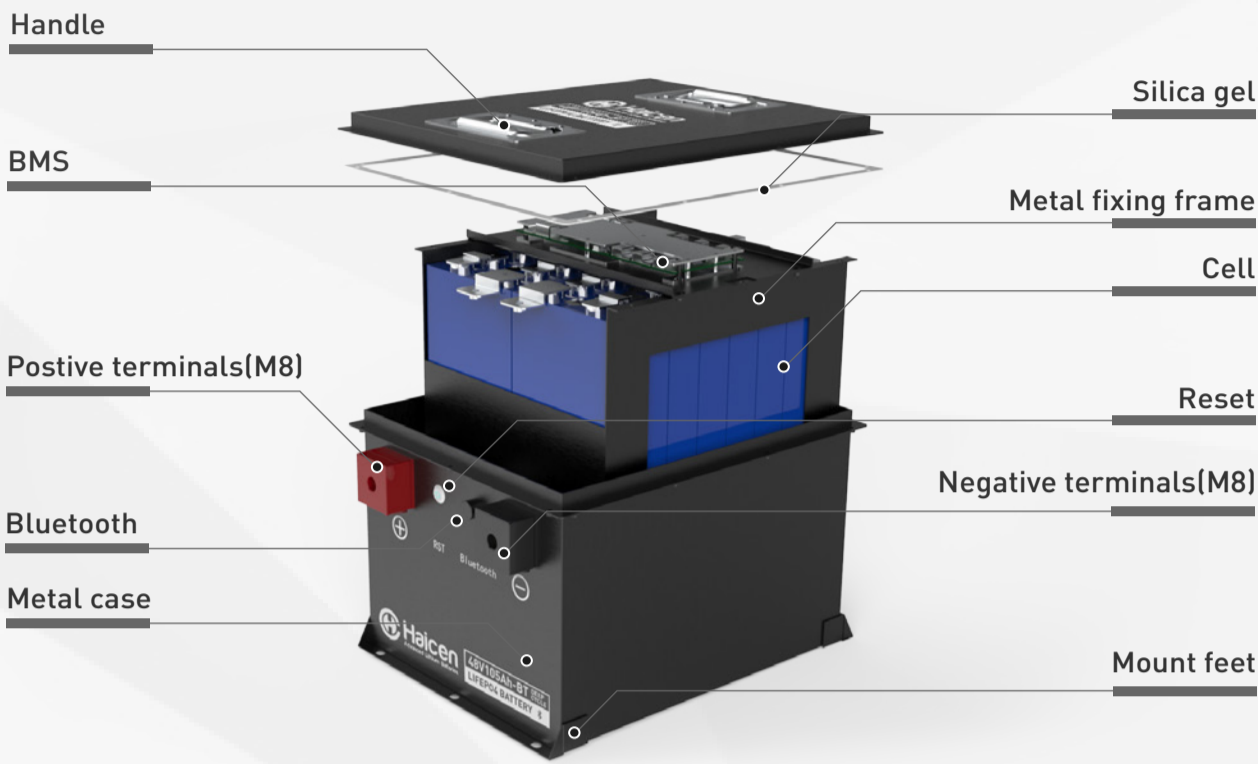


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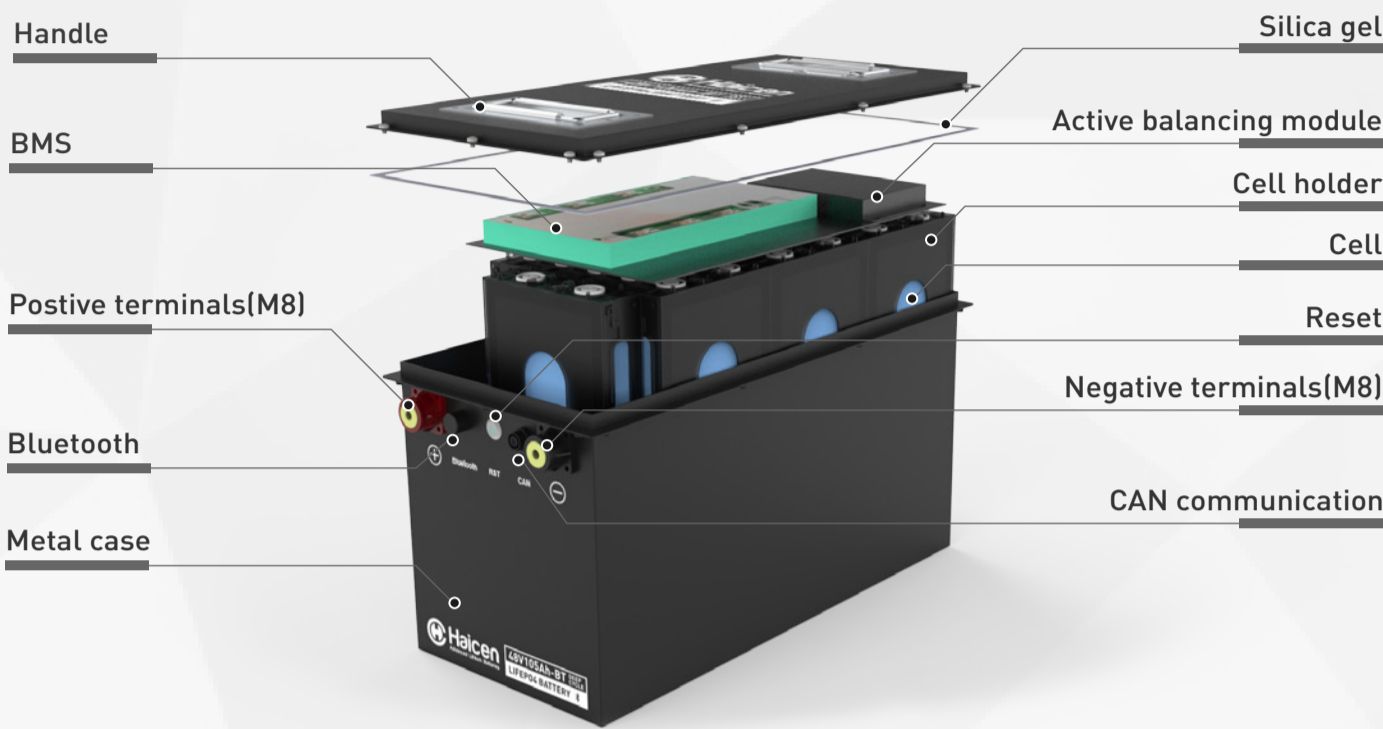
48V 105Ah Bluetooth



## Internal Structure:



HC Golf-48105BT-A



HC Golf-48105BT-B

## Key Benefits:

- Higher qualified prismatic cell:**  
UL1642, UL2580, UL9540, IEC62619 certificated prismatic cell with high consistency.
- Active balancing module:**  
The active balancing module could keep the battery always be in balance state and ensure long cycle life.
- More stable and firm internal structure:**  
Each model is equiped with metal fixing frame or cell holder to strongly fix the cell and lessen the vibration to cell caused by driving on an uneven road.
- Stronger BMS:**  
Equip with 200A BMS, delivering more power when golf cart running uphill.
- High waterproof:**  
We make waterproof treatment on the top cover and handle to ensure the battery won't affected by rainy weather and humid environment.
- Higher energy density with less weight:**  
The 3.2V105Ah prismatic cell which be used in these two model is with energy density 169wh/kg, about 15% higher than others, which bring less weight.

## Market Applications:



Golf cart



RV



Data center



Factory



Marine



Telecom basic station



Home



Business Building



Solar hybrid system

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## Package:

### HC Golf-48105BT-A:

20' Container=10Pallets=240Cartons=240Units;  
40' Container=20Pallets=480Cartons=480Units;



Internal Package  
Forming pearl foam



1Carton=1Unit

Weight: 45Kg/carton  
Size(L×W×H): 471×391×345mm



1Pallet=24Cartons

Weight: 1095Kg/pallet  
Size(L×W×H)=1.2×1×1.5m ≈ 1.8CBM

### HC Golf-48105BT-B:

20' Container=10Pallets=240Cartons=240Units;  
40' Container=20Pallets=480Cartons=480Units;



Internal Package  
Forming pearl foam



1Carton=1Unit

Weight: 45Kg/carton  
Size(L×W×H): 564×295×370mm



1Pallet=24Cartons

Weight: 1095Kg/pallet  
Size(L×W×H)=1.2×1×1.6m ≈ 1.9CBM

## 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.