

HC48150 Golf Series / Data sheet

48V 150Ah

Bluetooth



Model

HC48150-G

48V150Ah Golf cart LiFePO4 Battery

Electrical Specifications

Nominal Voltage	48V
Nominal Capacity	150Ah
Parallel Connection	Max. 4units
Serial Connection	No
BMS	16S200A
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



Charge Specifications

Charge Voltage	57.6±0.8V
Standard Current	30A
Fast Current	75A

Discharge Specifications

Standard Current	30A
Max. Con. Current	150A
Peak Current	1000A (300ms)
Cut-off Voltage	40V

Mechanical Specifications

Dimensions (mm)	620×320×233mm
Approx Weight(KG)	62
Terminal Type	M8
Case Color/material	Black Metal case
IP Rating	IP65
Cell Type	Cylinder LiFePO4 cell

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

Cell match:
More strict cell matching standard, the difference of Internal resistance is 0.1mΩ 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)

CE (Pack)



IEC62133 (Cell)

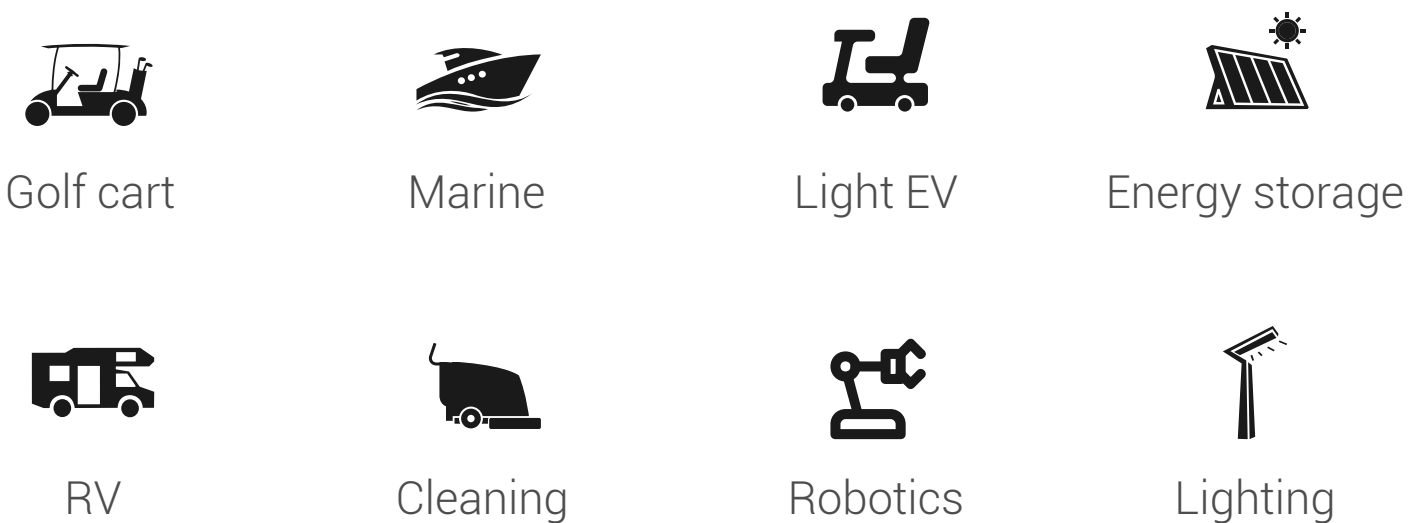
MSDS (Pack)



IEC62619 (Cell)

UN38.3 (Pack)

Market Applications

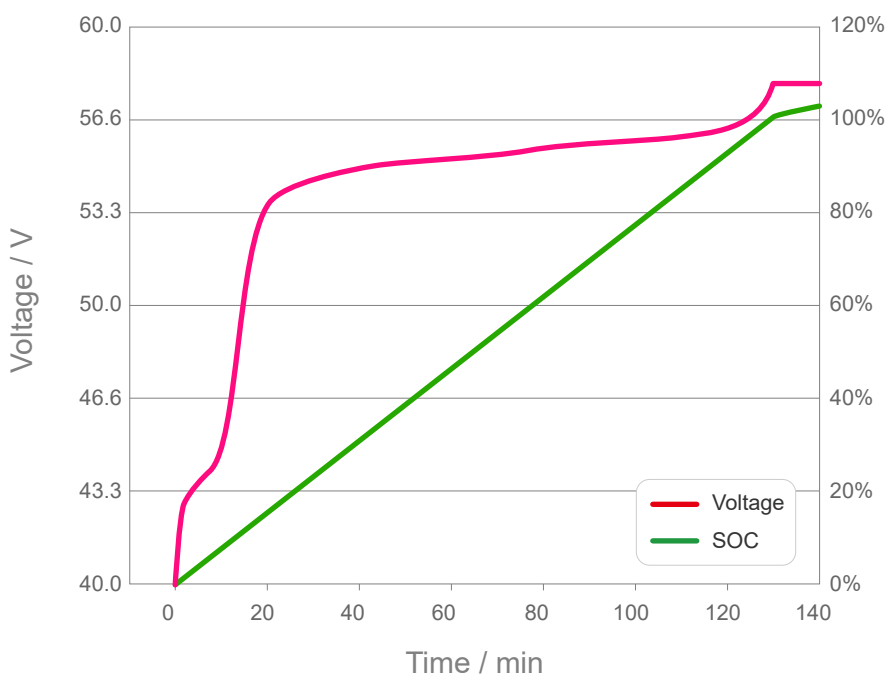


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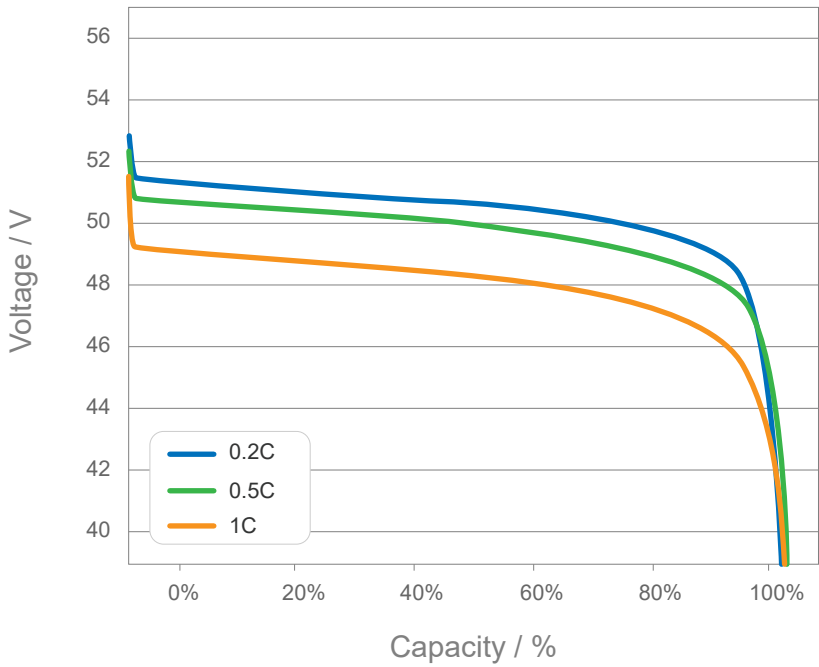
48V 150Ah Bluetooth



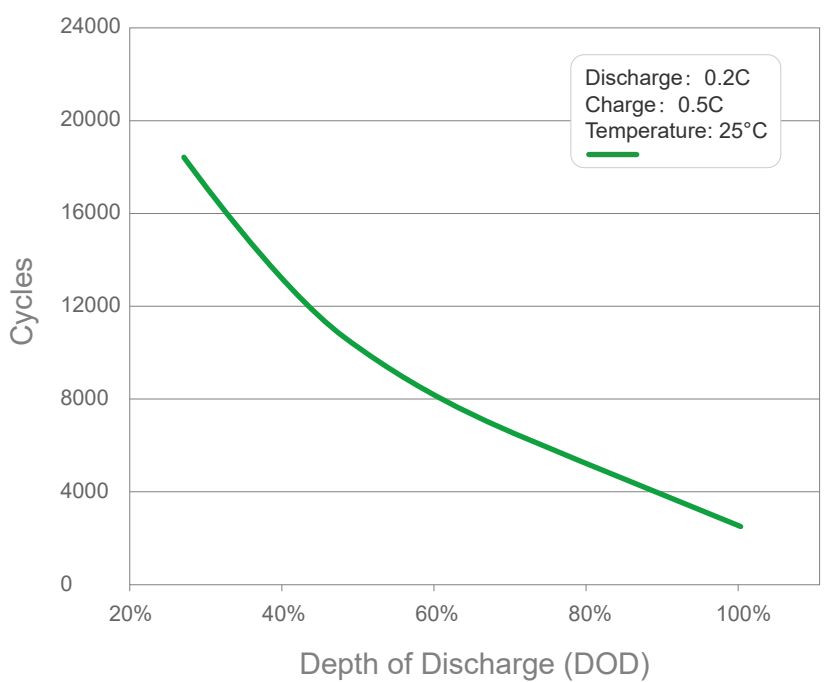
Characteristics Curve



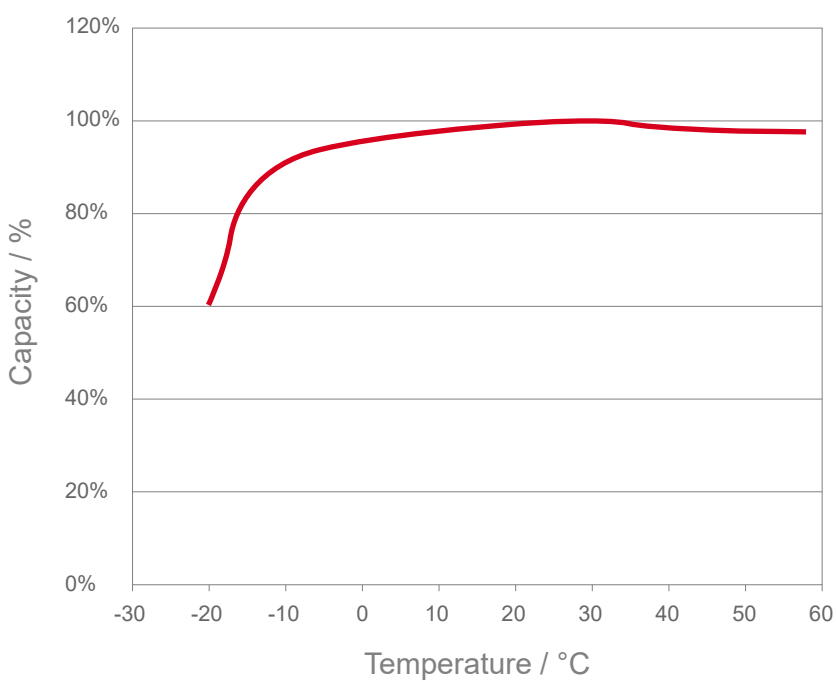
Charging characteristic curve-0.5C@25°C



Discharging characteristic curve-0.2C,0.5C,1C@25°C



Different DOD Discharge CycleLife Curve



Different temperature capacity curves

Dimensions



Key Benefits

Higher qualified cylindrical cell:

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

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.

Stronger BMS:

Equip with 200A BMS, can deliver more power during device's uphill operation, smoother your task.

Higher capacity based on same size:

Based on smaller size and cell holder, our capacity 150Ah is 30% higher than others without much higher weight.

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 benifits.