

Model

LD48100SL

48V 100Ah Solid State LiFePO4 Battery

Electrical Specifications

Nominal Voltage	51.2V
Nominal Capacity	100Ah
Parallel Connection	Max. 16units
Serial Connection	No
BMS	16S100A
Protection	Over charge, Over discharge, Over current, Over temp, Short, Balance
Communication	2×RS485 and 1×CAN; LCD
Cycle Life	5000times Cycles @100%DOD and 10000times @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	20A
Fast Current	50A

Discharge Specifications

Standard Current	20A
Max. Con. Current	100A
Peak Current	250A (30ms)
Cut-off Voltage	40V

Mechanical Specifications

Dimensions (mm)	442(482)×517×133.5mm
Approx Weight(KG)	43
Terminal Type	4 x M6
Case Color/material	Black Metal case
IP Rating	IP54
Cell Type	3.2V 50Ah solid state 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	-20°C to 45°C	(-4°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.

Market Applications



RV



Marine



Light EV



Energy storage



Golf cart



Cleaning

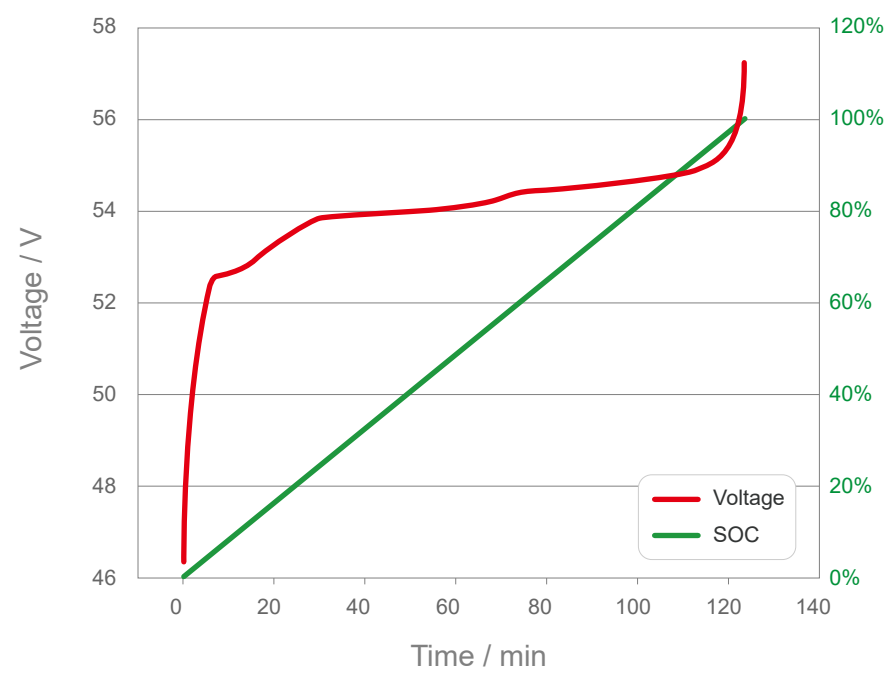


Robotics

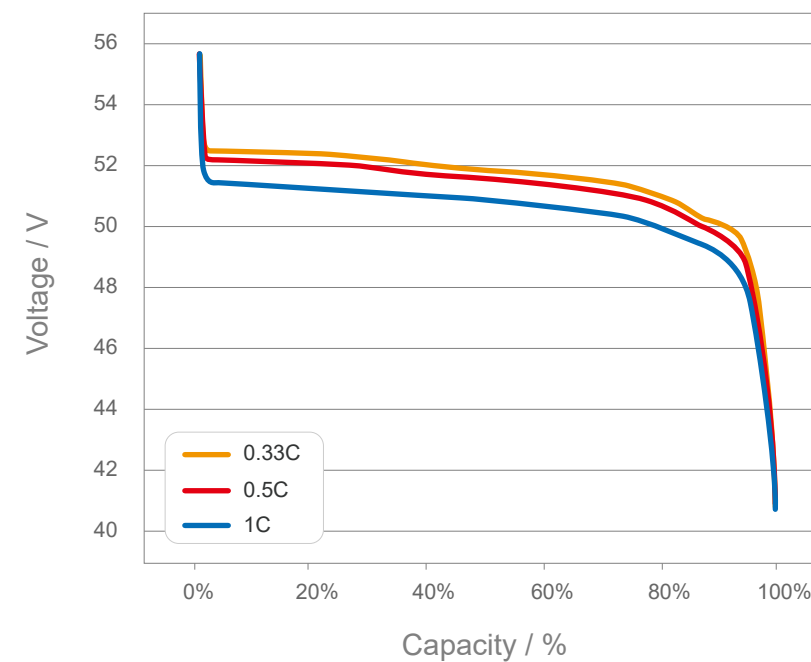


Lighting

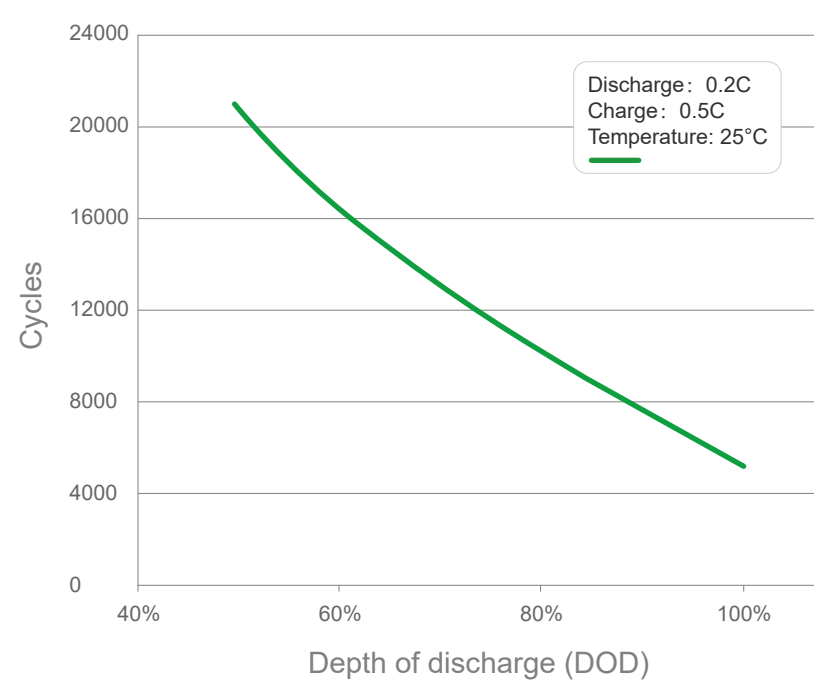
Characteristics Curve



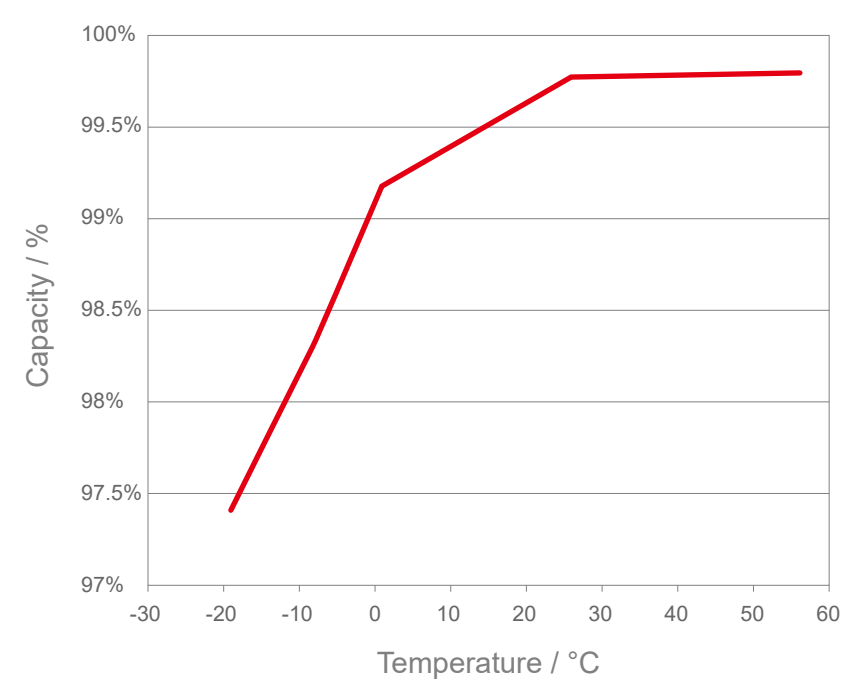
Charging characteristic curve-0.5C@25°C



Discharging characteristic curve-0.33C,0.5C,1C@25°C

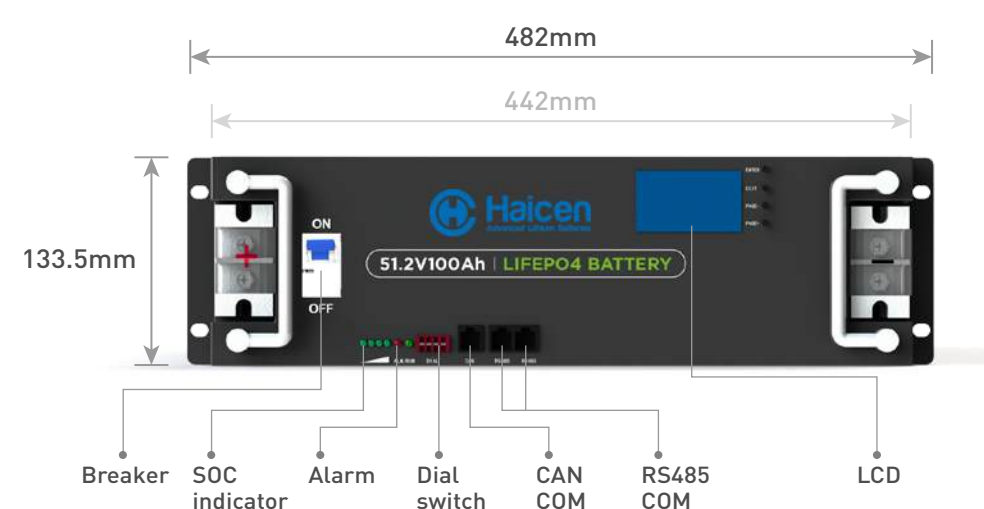


Different DOD discharge cycle life curve



Different temperature capacity curves

Dimensions



Key Benefits

- Higher Safety: no fire and no smoke even if penetrated by nails.
- Better performance at low temperature: over 97% capacity discharged at -20°C.
- Longer Cycle life: over 5000times at 100% DOD and over 10000times at 80% DOD.
- Lower temperature rising when working, less than 7°C rising at 0.5C.
- Max. 16pcs in Parallel to get Max. 86kwh system.
- Maintenance Free.
- Compatible with most Brands inverters.
- Modular, Scalable & Proven Performance.

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.