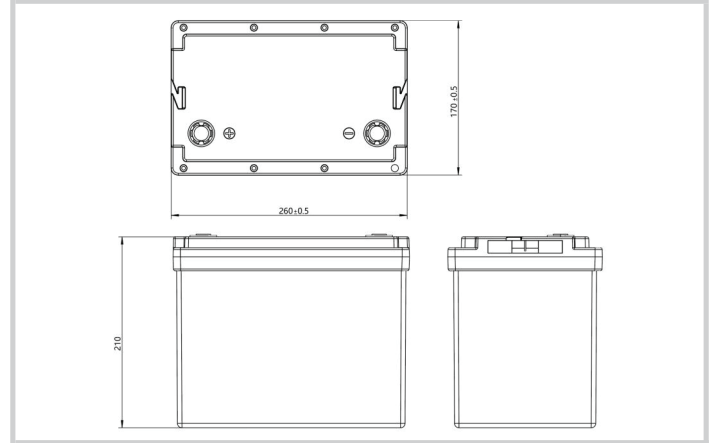


Nova Series LiFePO4 lithium batteries are able to provide you superior performance, durable life cycle, high safety and long lasting reliability under different situations. Nova insists on using state-of-art of high quality lithium cell and advanced BMS technology, our batteries are robustly designed for wide range applications. Nova 12V, 24V, 48V / 51.2V series lithium battery, which are popularly used in industrial, residential, commercial and military fields, such as solar/wind energy storage power system, home ESS, telecommunication site, UPS/Data Center backup power, electric vehicle, golf cart, floor machines, forklifts, robotics, marine, RV, medical equipment etc.



## BATTERY SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Min. Capacity	99Ah
Nominal Energy	1280Wh
Internal Resistance	≤ 8mΩ
Cycle Life	3500Cycles @50A Charging/Discharging ,Until 80% Capacity
Self Discharge	≤ 2% per month at 25°C&50%SOC
Bluetooth&Heat	Optional

## Standard Charging &Discharge

Charging Voltage	14.0~14.4V
Charging Mode	CC-CV
Recommended Charging Current	≤ 50A
Max.Charging Current	100A Continuous charging with this current may trigger BMS temperature protection.
Recommended Discharging Current	50A
Max. Continuous Discharging Current	100A
Max.Pulse Current	250(<10S)
Discharging Cut-off Voltage	10.8

## Operating Condition

Charge Temperature	0°C to 45°C(32°F to 113°F) @60±25% Relative Humidity
Discharge Temperature	-20°C to 60°C(-4°F to 140°F) @60±25% Relative Humidity
Storage Temperature	0°C to 45°C(32°F to 113°F) @60±25% Relative Humidity

## Structure

Casing	Plastic
Dimension(L*W*H*TH)	260*170*210 mm
Weight	Approx. 9.7Kgs
Terminal	M8
Water Dust Resistance	IP65

## Number of batteries used in series and parallel

Maximum number of series connections	4PCS
Maximum number of parallel connections	4PCS

## Certifications

- UL(Cell)
- CE(Cell/Battery)
- IEC62133(Cell)
- UN38.3(Cell/Battery)
- ROHS(Cell)
- IEC62619(Cell)

## Constant Current Discharge Data ( Amperes @ 25° )

Discharge Time	1h	2h	3h	4h	5h	10h	20h
Cut off voltage (10.8V)	100A	50A	33.33333A	25A	20A	10A	5A

## Constant Power Discharge Data ( Watts @ 25° )

Discharge Time	65min	2h	3h	4h	5h	10h	20h
Cut off voltage (10.8V)	1107W	627W	421W	318W	255W	129W	65W

## Market Application



Low-speed car



Golf cart



Light EV



Robotics



Cleaning

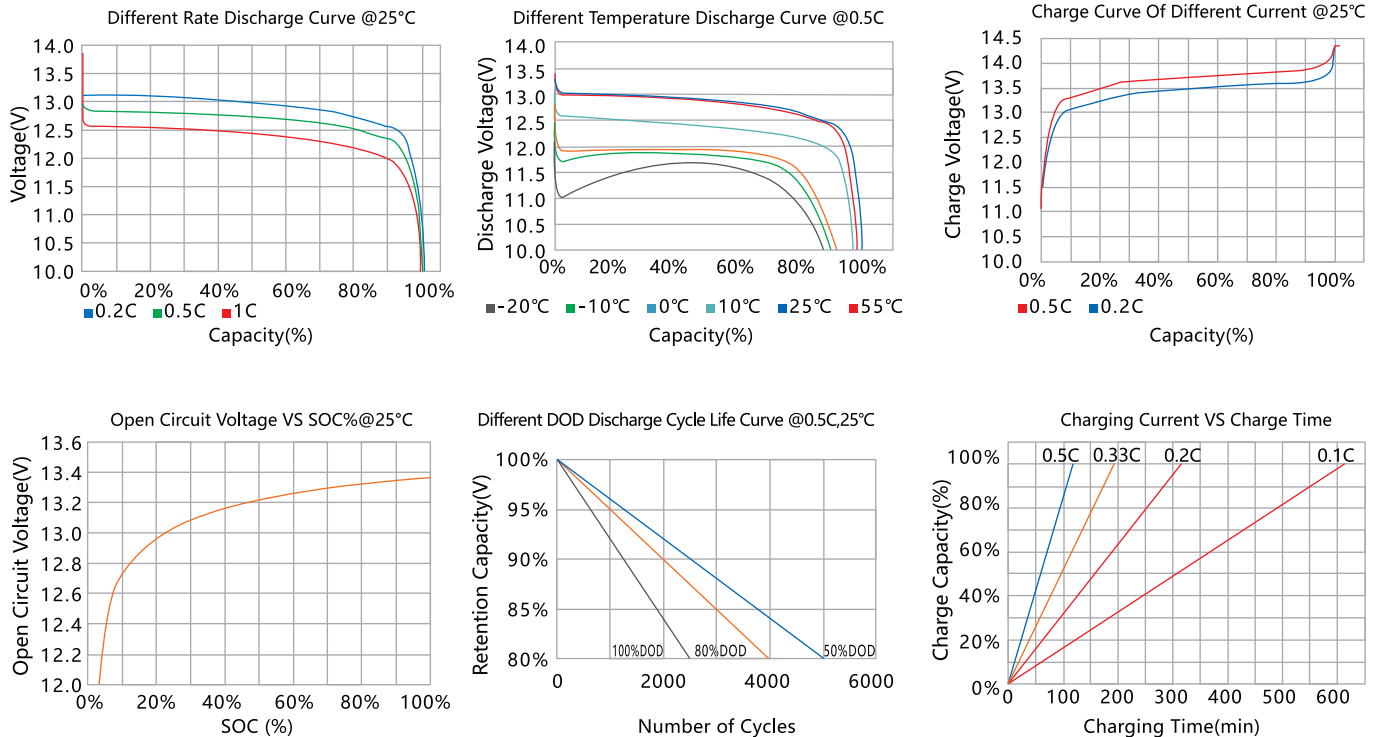


Solar & Wind



Lighting

## Battery characteristic curve



Note 1: Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation.  
 Note 2: When make parallel connection, please full discharge batteries, then recharge after parallel connected; when series connect, please keep batteries with same remain capacity.  
 Note 3: Parallel connection is only for longer backup time, not for larger output power.