

NV-LFP-25100E (25.6V100Ah)

NavaSolar NV-LFP series use quality trustable LiFePO₄ cells, with build-in BMS system. IP65 protection, support series and parallel use, is an ideal choice for outdoor, small energy storage, marine and other fields.

Features

- . Safest lithium battery technology
- . Lithium iron Phosphate Battery(LiFePO₄)
- . Eco-friendly
- . Special protection plate, supporting parallel
- . Multiple safety protection
- . Intelligent balancing function
- . 20 Years Designed service life

Mechanical Specifications

Case Material	ABS
Cell Type -Chemistry	Prismatic LiFePO ₄
Terminal Type	M8
IP Grade	IP65

BMS Characteristics

Recommended Charge Current	50A
Maximum Charge Current	100A
Maximum Continuous Discharge Current	100A
Recommended Charge Voltage	27.2~27.6V
Max Charge Voltage	29.2V
Overcharge Protection Voltage	29.6~30.0V
Charge Mode	CC/CV
Discharge Cut-off Voltage (BMS)	17.6V

Basic Performance

Nominal Voltage	25.6V
Nominal Capacity	100Ah
Standard Discharge Time	100A @60min
Energy	2.56K Wh
IR	<= 15mΩ
Self Discharge	<=2%/Month
Cells	Square 100Ah
Cycle Life	2500 times (1C/1C)
Size	483*170*240
Weight	21KG

Compliance

Certifications	CE/UN38.3/UL1642/IEC62133
Transport Appraisal	UN3480,CLASS 9



***3 Year Warranty Included**

Charge Performance

Rated Charge Current	50A
Maximum Charge Current	100A
Rated Charge Voltage	27.2~27.6V
Charge Cut-off Voltage	> 29.6V(0.5~1.5S)
Reconnect Voltage	<28.8V
CELL Balancing Voltage	>3.5V
System Series	<=2

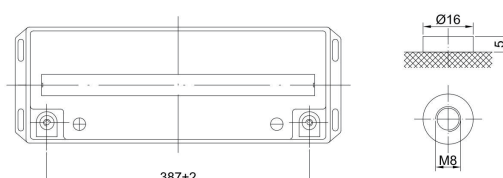
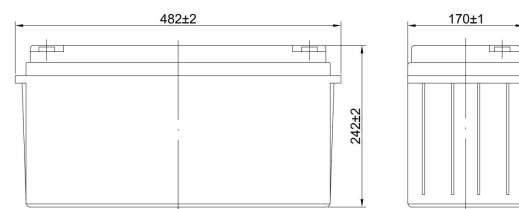
Discharge Performance

Rated Discharge Current	100A
Pulse Current(<=5S)	600A
Rated Discharge Cut-off Voltage	22.4V
Minimum Discharge Cut-off Voltage	>20V
Reconnect Voltage	>20.8V
Short Circuit Protection	200~800 μs
Short Circuit Current	Approx. 2200A

Temperature Performance

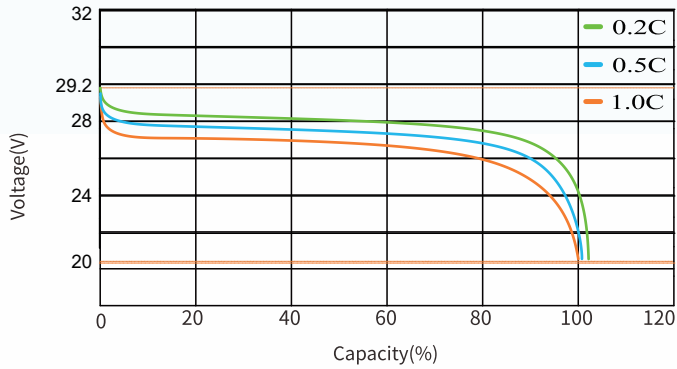
Discharge Temperature	-20~60°C
Charge Temperature	0~45°C
Storage Temperature	-5~35°C
High Temperature Cut-off	70°C
Reconnect Temperature	50°C

Size

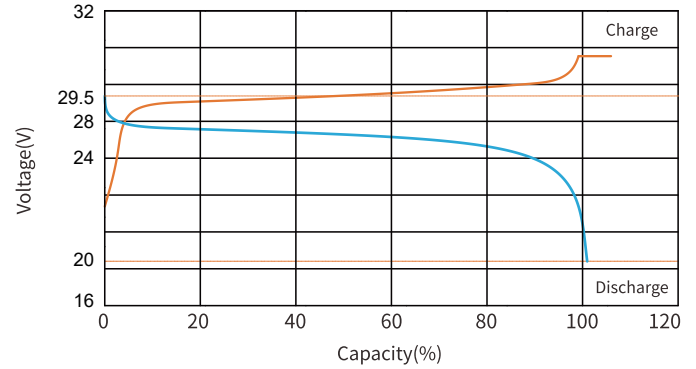


Characteristics Curve

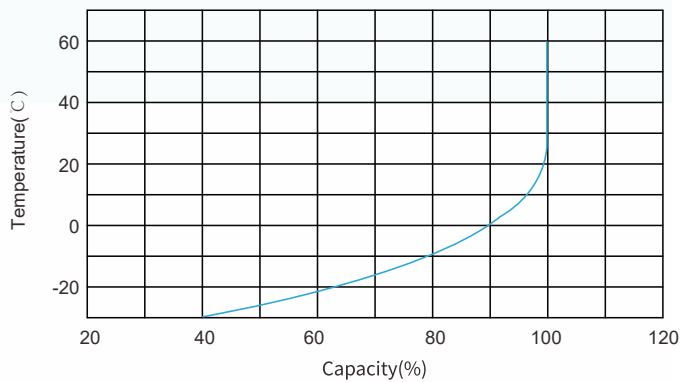
Discharge Performance with different rate 25°C



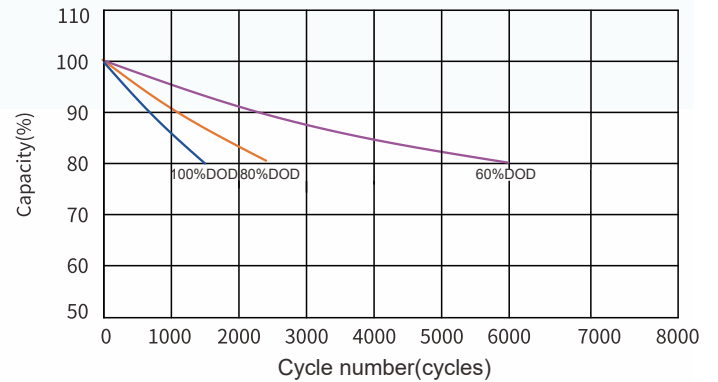
Charge & Discharge curve with 0.5°C@25°C



Discharge capacity with different temperature@0.5°C



Cycle Life with DOD @ 0.5°C, 25°C



Cautions

1. Do NOT short circuit, crush or disassemble.
2. Do NOT heat or incinerate.
3. Do NOT immerse in any liquid.
4. Store at 50% capacity. Recharge every 3 months. The storage area should be clean, cool, dry and ventilated.
5. Disconnect charging source prior to connecting or disconnecting battery terminals.
6. Do not dispose of batteries in a fire as they can explode.
7. Do not open, alter, or mutilate batteries. Released electrolyte is harmful to skin and eyes. It may be toxic.
8. Do not mix different types and brands of lithium-ion batteries.
9. Do not dispose in trash, follow local regulations and manufacturer's instruction.
10. See installation instructions before connecting to the supply.
11. The battery cabinet receives power from more than one source. Disconnection of all DC sources is required to De-energize this unit before installing or servicing.
Wait 5 minutes before opening the unit.
12. Do not install on or over combustible surfaces.
13. Refer to manual before servicing.
14. Do not touch bare terminals.