NV-LFP-12100E (12.8V100Ah)

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
DNC Characteristics	
BMS Characteristics	
Recommended Charge Current	50A
Maximum Charge Current	100A
Maximum Continuous Discharge Cu	rrent 100A
Recommended Charge Voltage	13.6~13.8V
Max Charge Voltage	14.4V
Overcharge Protection Voltage	14.8~15.0V
Charge Mode	CC/CV
Discharge Cut-off Voltage (BMS)	8.8V

Basic Performance

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Standard Discharge Time	100A @60min
Energy	1.28K Wh
IR	<= 15mQ
Self Discharge	<=2%/Month
Cells	Square 100Ah
Cycle Life	2500 times
Size	306*169*215
Weight	10.1

Compliance

Certifications	
Transport Appraisal	

CE/UN38.3/UL1642/IEC62133 UN3480,CLASS 9



*3 Year Warranty Included

Charge Performance

Rated Charge Current	50A
Maximum Charge Current	100A
Rated Charge Voltage	13.6~13.8V
Charge Cut-off Voltage	> 14.8V(0.5~1.5S)
Reconnect Voltage	<14.4 V
Balancing Voltage	<14V
System Series	<=4

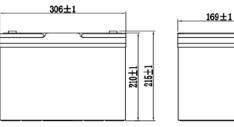
Discharge Performance

Rated Discharge Current	100A
Pulse Current(<=5S)	600A
Rated Discharge Cut-off Voltage	11.2V
Minimum Discharge Cut-off Voltage	>10V
Reconnect Voltage	>10.4V
Short Circuit Protection	200~800 µs
Short Circuit Current	Approx. 1200A

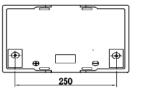
Temperature Performance

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



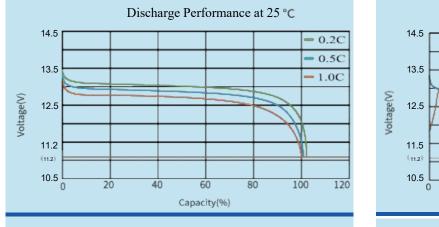


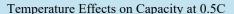


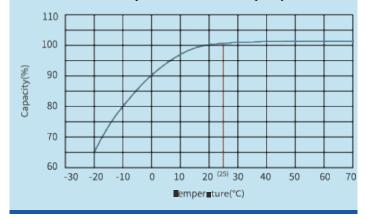


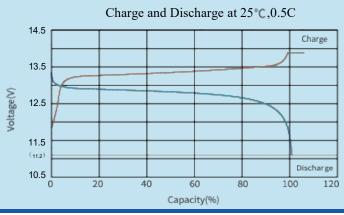


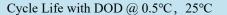
Characteristics Curve

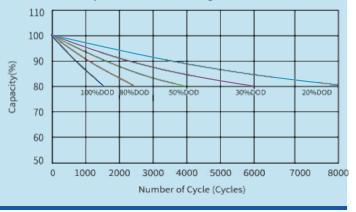












Cautions

- 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.
- 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.
 - 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.