NOVA Energy Storage Systems

LFP48200C

Lithium Iron Phosphate Battery

FEATURES & BENEFITS

High Cycle Life
3500 Cycles @ 80%DoD SOC for Effectively Lower Total of Ownership Cost.

Longer Service Life
Low Maintenance Batteries With Stable Chemistry.

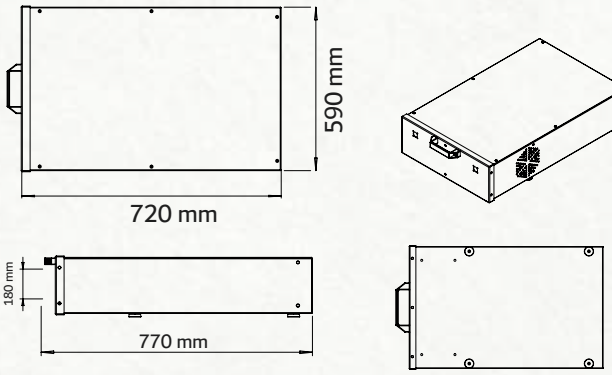
Built in Circuit Protection
Battery Management System (BMS) is Incorporated Against Abuse.

Better Storage
Up to 6 Months Thanks to Its Extremely Low Self Discharge (LSD) Rate And No Risk of Sulphation.

Quickly Recharge
Save Time And Increase Productivity With Less Down Time Thanks to Superior Charge/Discharge Efficiency.

Extreme Heat Tolerance
Suitable for Use in a Wider Range of Applications Where Ambient Temperature is Unusually High: Up to +°60C.

Light Weight
Lithium Batteries Provide More Wh/Kg While Also Being Up to 3/ 1 the Weight of its SLA Equivalent.

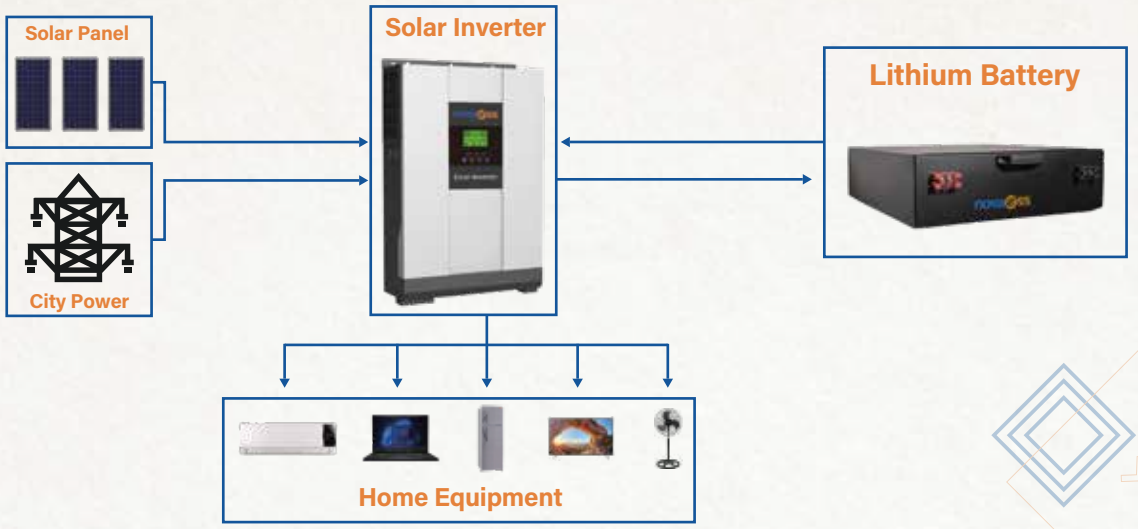


APPLICATIONS

Lithium Iron Phosphate Can Be Used in Most Applications That Use Lead Acid, GEL or AGM Type Batteries. Suitable Applications Include:

- Solar Storage.
- Switching Applications And More.
- Base Transceiver Station.
- Communication Equipments.
- Central Office.
- Telecommunication Systems.
- Electronic Cash Registers.
- Microprocessor Based Office Machine.
- UPS.

SYSTEM DIAGRAM



ELECTRICAL PERFORMANCE	
Nominal Capacity	200Ah
Capacity@50A	240 min
Energy	10.24 KWh
Communication	Blutooth, RS485 & CAN(Optional)
Resistance	≤45mΩ@50%SOC
Efficiency	＞96%

CHARGE PERFORMANCE	
Module Parallel	Upto3packs
Recommended Charge Current	80 A
Maximum Charge Current	140 A
Recommended Charge Voltage	57 V
BMS Charge Cut-Off Voltage	<29.2 V(3.65V/Cell)
Reconnect Voltage	>28.8 V(3.6V/Cell)
Balancing Voltage	<28.8 V(3.6V/Cell)
Maximum Batteries in Series	8 if we use RS485 and CAN option

DISCHARGE PERFORMANCE	
Maximum Continuous Discharge Current	150 A
Peak Discharge Current	300 A
BMS Discharge Cut-Off Current	310 A
Balancing Open Voltage	27.6 V(3.45V/Cell)
Recommended Low Voltage Disconnect	23.5 V(2.75V/Cell)
BMS Discharge Cut-Off Voltage	>20 V(2s)(2.0V/Cell)
Reconnect Voltage	>21 V(2.5V/Cell)
Short Circuit Protection	250~500μs

MECHANICAL PERFORMANCE	
Dimension (LxWxH)	720 x 590 x 180 mm
Approx. Weight	80 kg
Terminal Type	PG38 Screw copper terminal
Terminal Torque	9 ~11N-m
Case Material	SPPC
Enclosure Protection	IP55

TEMPERATURE PERFORMANCE	
Discharge Temperature	-20 ~33ºC
Charge Temperature	0 ~43ºC
Storage Temperature	-3 ~33ºC
BMS High Temperature Cut-Off	63ºC
Reconnect Temperature	33 ºC

HEATING FOIL PERFORMANCE	
Heating Temperature Range	-5 to 45 ºC
BMS Heating Foil Cut-Off	70ºC

COMPLIANCE	
Certifications	UL1642 & IEC62133 (cells)
Shipping Classification	UN3480,CLASS9

Battery Dimensions

Length	Width	Height
720 mm	590 mm	180 mm

CAUTIONS

- **Do NOT Short Circuit, Reverse Polarity, Crush or Disassemble.**
- **Do NOT Heat or Incinerate.**
- **Do NOT Immerse in Any Liquid.**
- **Store At 30~50% SOC. Recharging Every 3 Months is Recommended.**

The Storage Area Should be Clean, Cool, Dry and Ventilated.

Performance May Vary Depending on Application. All Specifications are Subject to Change Without Prior Notice to The User. This Data is For Evaluation Purposes Only. No Guarantee is Intended or Implied By This Data. For Clarification And Updated Information, Please Contact Us.

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