

Na 8200/HV

51.2V 160Ah Rack-Mounted Sodium Ion Battery

NFPP Sodium-ion Cells High Safety

Built on 160Ah NFPP sodium-ion prismatic cells with high thermal stability and low heat generation, delivering zero fire and explosion risk, exceptional safety in extreme environments, and reduced thermal management costs.

Extended Cycle Life

Over 15,000 cycles at 25°C ambient temperature with 80% depth of discharge (DOD). With a service life of up to 20 years, it lasts twice as long as conventional lithium batteries.

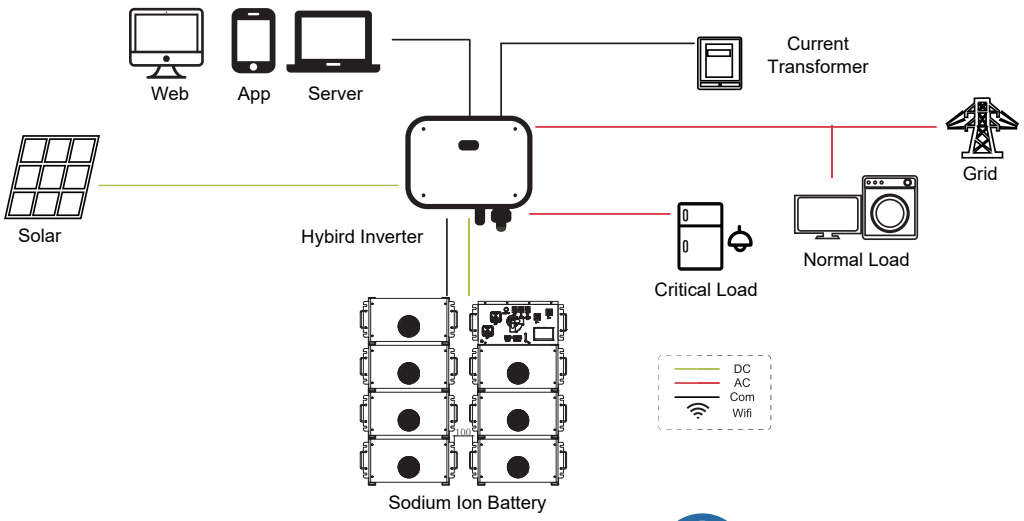
Ultra-Wide Operating Temperature Range

Stable operation from -40°C to 60°C. Discharge capacity retention exceeds 90% at -40°C, and discharge energy retention still exceeds 92% after 20 months of full-charge storage at 60°C.

High Rate Capability with Strong Power Response

Supports power pulses and instantaneous response, completing charge/discharge switching within seconds or milliseconds — precisely matching emerging high-frequency, high-power scenarios such as AIDC (AI Data Centers) and grid frequency regulation.

Application

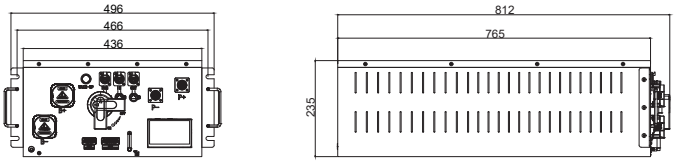


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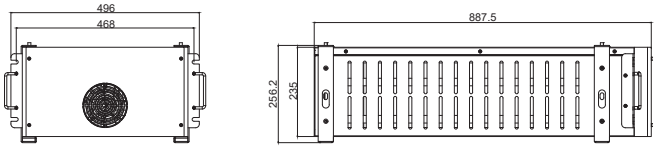
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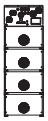
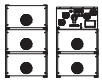
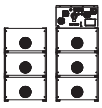
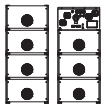
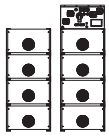
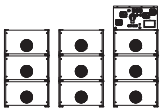
HV BOX Dimensions



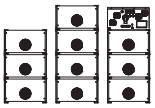
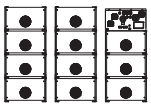
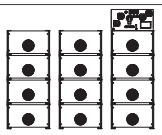
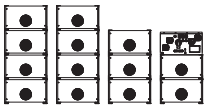
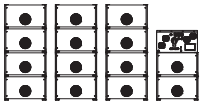
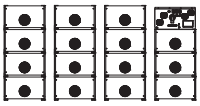
Battery PACK Dimensions



Parameters

Module Type	Na 32kWh/HV	Na 41kWh/HV	Na 49kWh/HV	Na 57kWh/HV	Na 65kWh/HV	Na 74kWh/HV
Battery Type	Rechargeable Sodium Ion Battery (NFPP)					
Battery Capacity	160Ah	160Ah	160Ah	160Ah	160Ah	160Ah
Pack Configuration	1P18S					
Nominal Energy	32.94kWh	41.18kWh	49.42kWh	57.65kWh	65.89kWh	74.13kWh
Nominal Voltage	205.92V	257.4V	308.88V	360.36V	411.84V	463.32V
Operating Voltage Ranges	158.4~244.8V	198~306V	237.6~367.2V	277.2~428.4V	316.8~489.6V	356.4~550.8V
Battery packs Number	4	5	6	7	8	9

Module Type	Na 82kWh/HV	Na 90kWh/HV	Na 98kWh/HV	Na 107kWh/HV	Na 115kWh/HV	Na 123kWh/HV
Battery Type	Rechargeable Sodium Ion Battery (NFPP)					
Battery Capacity	160Ah	160Ah	160Ah	160Ah	160Ah	160Ah
Pack Configuration	1P18S					
Nominal Energy	82.36kWh	90.6kWh	98.84kWh	107.07kWh	115.31kWh	123.55kWh
Nominal Voltage	514.8V	566.28V	617.76V	669.24V	720.72V	772.2V
Operating Voltage Ranges	396~612V	435.6~673.2V	475.2~734.4V	514.8~795.6V	554.4-856.8V	594-918V
Battery packs Number	10	11	12	13	14	15

Weight		Battery Pack: 130kg HV Box:15.5kg
Dimension		Pack:887.5*496*235mm HV Box:812*496*235mm
Recommended Charge and Discharge Current		80A
Max.Continuous Charging and Discharging Current		160A
Efficiency		99%(@25°C 0.5C)
Cycle Life		≥15000(@25°C 80%DOD 70%SOH)
Operation Condition		Indoors/In cabinet
Installation		Rack-mounted
Relative Humidity		＜95%RH
Cooling Method		Natural Cooling
Altitude		≤2000m
IP Rating		IP20
Temperature	Charge	0°C~60°C
	Discharge	-40°C~60°C
	Storage	20°C ~ 45°C
Communication		CAN / RS485
Protection Mode		Triple hardware protection
Battery Protection		Overcurrent / Overvoltage / Short circuit / Undervoltage

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Specifications are subject to change without further notification

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