

Sodium-Ion Battery Series

NA160-12/NA160-24

Version: V1.0

NA160-12/NA160-24 sodium-ion battery is a cost-effective top choice for energy storage. With abundant, non-monopolized sodium resources, its raw material cost is only 1/50 that of lithium batteries, and can drop another 5%-10% after large-scale production.

It offers excellent safety: initial thermal runaway temperature of 200°C, no fire or explosion under abuse, and over 70% power retention at -40°C. It also supports 15-minute fast charging to 80%, boasts over 6000 cycles, is easily recyclable, meets national energy storage policies, and fits multiple scenarios.



Long Cycle Life

Stable positive electrode structure (no phase change) supports long-term, high-frequency charging/discharging, cutting end-users' replacement costs.

Excellent Low-Temperature Performance

Uses aluminum foil for both positive and negative current collectors (no high-cost copper foil like lithium batteries). After large-scale production, cost is 5%-10% lower than lithium iron phosphate batteries.

Good Tolerance

Superior resistance to overcharging/over-discharging and high stability at high temperatures.

Low Cost

Battery's positive/negative current collectors adopt aluminum foil (eliminating lithium battery anode copper foil's high cost), with 5%-10% additional cost reduction vs. lithium iron phosphate batteries after large-scale production.

Dimensions



Product Model	NA160-12	NA160-24
Electrical Characteristics		
Nominal Voltage	12V	24V
Nominal Capacity	160Ah	
Energy	1920Wh	3840Wh
Battery Chemistry	Sodium-ion Battery	
Cycle Life	6000 Cycles @ 80% DOD, 25°C/0.5C	
Operating Voltage	24~41.4V	48~82.8V
Communication Interfaces	Bluetooth	
Scalable	2-4 Battery Packs in Series	
Expansion Function	Heating Function (Optional)	
Charge & Discharge		
Recommended Charge/Discharge Current	80A	
Maximum Continuous Charge/Discharge Current	160A	
Instantaneous Discharge Current	170A10s	400A3s
Environmental		
Environment	Indoor/Outdoor	
Charging Temperature	0 - 55°C (32°F - 131°F)	
Discharging Temperature	-20 - 60°C (-4°F - 140°F)	
Storage Temperature	Within 1 month of storage period: Temperature -20°C - 45°C; Over 1 month of storage period: Temperature 25±3°C	
Storage Humidity	<75RH	
Cooling Method	Natural Cooling	
IP Rating	IP65	
Mechanical		
Dimension(L*W*D)	384*204*270mm	524*265*233mm
Weight	24kg	46kg
Certification		
UN38.3, MSDS,Marine Shipping Repor		

*The actual product may have slight differences from some promotional videos or pictures. Please refer to the actual product. Unless otherwise specified the data on this page are all from our company's laboratory. The data may have errors due to changes in the objective environment.

*The specifications are subject to change without prior notice.