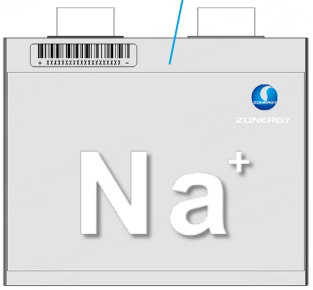
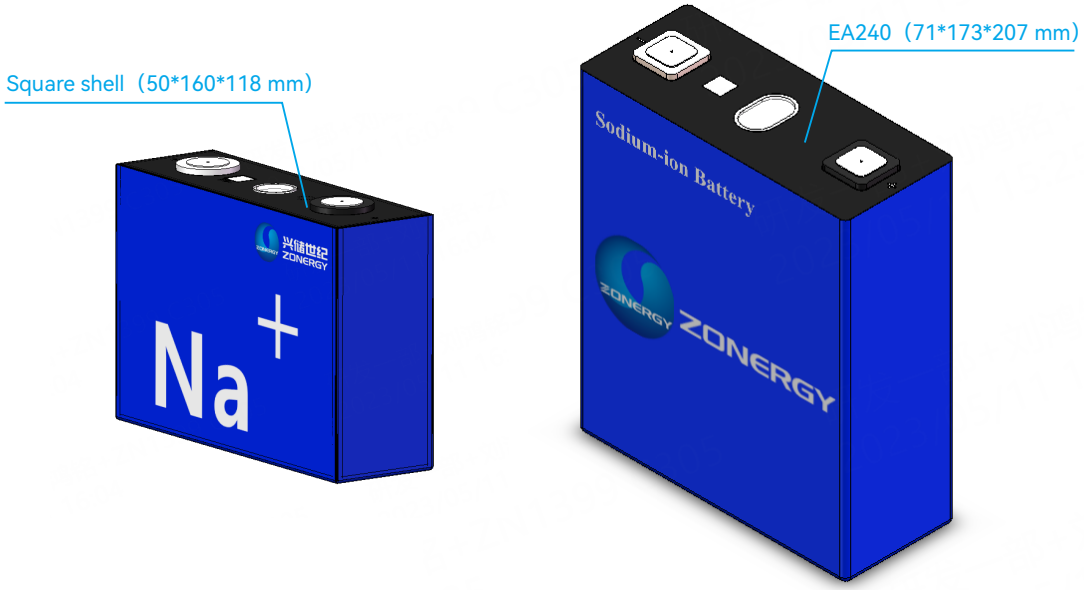
Na

Sodium-ion Battery Cell

NaNFM13160125-ES20\NaNFM50160118-EA75\NaNFM71173207-EA240

ZONERGY





High safety:
Be kept and transported at zero voltage, with no transport safety risk.
Less heat from spontaneous heating and few fire/explosion hazards in the event of overcharging/excessive discharge/short circuit/pressing.

Excellent rate property:
Compared to the lithium ion, the sodium ion has smaller stokes diameter and better interface reaction kinetics, its desolvation ability is about 25% to 30% smaller, and the sodium ion cell has better rate and low temperature performance.

Wide operating temperature range:
Good capacity retention ratio at high and low temperature (40ºC to 60ºC).

Good low-temperature characteristics:
①The capacity retention ratio is 85% to 90% at 20℃;
②The capacity retention ratio is 80% to 85% at 30℃;
③The capacity retention ratio is 75% to 80% at 40℃;

Moderate energy density:
Similar weight and volume energy density to that of lithium iron phosphate liion cell.

Technical Parameter:	NaNFM13160125-ES20	NaNFM50160118-EA75	NaNFM71173207-EA240
Rated capacity	20 Ah	75 Ah	240Ah
Energy density	150 Wh/kg	132 Wh/kg	150Wh/kg
Internal resistance of battery	ACR 1mΩ	ACR 0.5mΩ	ACR 0.3mΩ
Nominal voltage	3.0 V	3.0 V	3.0V
Working voltage	1.5 - 3.95	1.5 - 3.95	1.5 - 3.95
Cycle index	≥2500	≥2500	≥3000
Battery weight	0.4±0.02 kg	1.7±0.05 kg	4.8±0.1kg
External dimension (T*W*H)	13*160*125 mm	50*160*118 mm	71*173*207 mm

Application Fields:

The sodium-ion battery has more application potential in fields with less energy density requirements but is sensitive to safety and cost, such as the fields of distributed energy storage, low speed vehicles and backup power. **[Energy storage]** includes residential energy storage, industrial and commercial park energy storage, communication base station and portable power, etc.; **[Low-speed vehicles]** mainly include the low speed electric vehicle, electric bicycles, electric boats, buses and coaches

Energy storage:

Communication base station

Industrial and commercial park energy storage

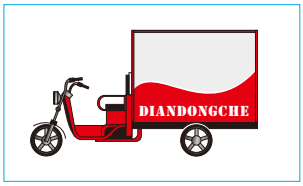
Distributed energy storage in low-temperature area

Portable power station

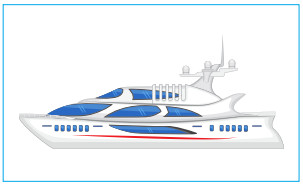
Residential energy storage

Low-speed vehicles:

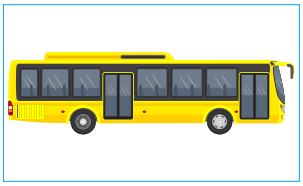
Electric bicycle



Low-speed electric vehicle



Electric boat



Electric bus