



Lead-acid Start Battery



Automotive Start Sodium-ion Battery

Low startup efficiency



Start up

Double the startup efficiency and strong performance

Monthly power loss exceeds 20%



Static

Monthly power down is less than 1%, no power loss for life

Average 2 years of cycle life



Life

The lifespan exceeds 10 years, on par with the vehicle

Unable to work at low temperature



Temperature

Normal operating temperature range: -60°C to 80°C

Cumbersome to replace and increases overall vehicle energy consumption



Weight

60% lighter in weight, reduces the vehicle energy consumption

None



Intelligent

Intelligent whole life cycle management

Lead contamination



Environmental friendly

Heavy metal free, green and low carbon emission

1-2 years warranty



Warranty

5-year free replacement warranty

High life cycle cost



Cost

30% lower life cycle cost

Leading Sodium-ion Battery in High-end Industry



Automotive Start Sodium-ion Battery



Automotive Start-Stop Sodium-ion Battery

Three Advantages



Flagship Products

- ◆ The two series of high-end start and start-stop products are ideal replacements for lead-acid batteries and are compatible with all mainstream car models
- ◆ High startup efficiency, extremely low power-down rate, and no power loss
- ◆ Durable, with a service life of up to 10 years
- ◆ Not afraid of extreme cold or high temperature, one-click start
- ◆ Lightweight and portable, intelligent management, environmentally friendly and low-carbon emission



Innovative Technology

- ◆ Three core technologies are protected by national invention patents and have been developed and manufactured entirely independently
- ◆ Developed high-rate, wide temperature range, and high-safety sodium-ion batteries, reaching the first-class level in the industry



Long Warranty

- ◆ 5-year long warranty
- ◆ No-cost replacement if a quality problem arises within the warranty period



Automotive Start Sodium-ion Battery (Conventional)

- Ultra-safe and long life
- Wide temperature range
- Superior performance and light installation

Model (NaQDP)		H4-380	H5-480	H5-580	H6-550	H7-650	H9-500
Electrical Performance	Nominal voltage	12V					
	Nominal capacity	30Ah	30Ah	40Ah	30Ah	40Ah	30Ah
	Cycle life (cycles)	>3000@ 1C 70% DOD					
	Monthly self-discharge rate	<3%					
	Discharge efficiency	96~99% @ 1C					
Discharge	Cold cranking ampere (CCA)	380A	480A	580A	550A	650A	500A
Environment	Operating temperature (temperature outside the car)	-20~60°C					
	IP rating	IP67					
	Battery case	ABS/70%ABS+30%PC					
Mechanism	Dimensions (mm)	238x129 x200	242x175 x190	242x175 x190	280x175 x190	315x176 x187	231x175 x200



Automotive Start-Stop Sodium-ion Battery (Conventional)

- Ultra-safe and long life
- Wide temperature range
- Superior performance and light installation

Model (NaQTP)		H5-660	H6-800	H7-1000	H9-750
Electrical Performance	Nominal voltage	12V			
	Nominal capacity	50Ah	60Ah	60Ah	50Ah
	Cycle life (cycles)	>3000@ 1C 70% DOD			
	Monthly self-discharge rate	<3%			
	Discharge efficiency	96~99% @ 1C			
Discharge	Cold cranking ampere (CCA)	660A	800A	1000A	750A
Environment	Operating temperature (temperature outside the car)	-20~60°C			
	IP rating	IP67			
	Battery case	ABS/70%ABS+30%PC			
Mechanism	Dimensions (mm)	242x175x190	280x175x190	315x176x187	231x175x200



Automotive Start Sodium-ion Battery (Alpine Region)

- Ultra-safe and long life
- Extreme low-temperature operation
- Superior performance and light installation

Model (NaQDG)		H4-380	H5-580	H6-550	H9-500
Electrical Performance	Nominal voltage	12V			
	Nominal capacity	27Ah	36Ah	27Ah	27Ah
	Cycle life (cycles)	>3000@ 1C 70% DOD			
	Monthly self-discharge rate	<3%			
	Discharge efficiency	96~99% @ 1C			
Discharge	Cold cranking ampere (CCA)	380A	580A	550A	500A
Environment	Operating temperature(temperature outside the car)	-40~60°C			
	IP rating	IP67			
	Battery case	ABS/70%ABS+30%PC			
Mechanism	Dimensions (mm)	238x129x200	242x175x190	280x175x190	231x175x200



Automotive Start-Stop Sodium-ion Battery (Alpine Region)

- Ultra-safe and long life
- Extreme low-temperature operation
- Superior performance and light installation

Model (NaQTG)		H5-660	H6-800	H7-1000	H9-750
Electrical Performance	Nominal voltage	12V			
	Nominal capacity	45Ah	54Ah	54Ah	45Ah
	Cycle life (cycles)	>3000@ 1C 70% DOD			
	Monthly self-discharge rate	<3%			
	Discharge efficiency	96~99% @ 1C			
Discharge	Cold cranking ampere (CCA)	660A	800A	1000A	750A
Environment	Operating temperature(temperature outside the car)	-40~60°C			
	IP rating	IP67			
	Battery case	ABS/70%ABS+30%PC			
Mechanism	Dimensions (mm)	242x175x190	280x175x190	315x176x187	231x175x200