

A background image showing a close-up of a battery assembly line. Several green cylindrical battery cells are visible, some inside a clear plastic protective housing. The scene is dimly lit, with the batteries being the primary light source.

PROFESSIONAL LITHIUM-ION POWER  
BATTERY AND NICKEL BATTERY MANUFACTURER

**PROFESSIONAL NEW ENGERY  
BATTERY MANUFACTURER**



Ningbo Siehope Technology Co., Ltd.

## COMPANY PROFILE

Factory land area  
10000m<sup>2</sup>



Ningbo Siehope Technology Co., Ltd. is a Lithium-ion power battery&Nickel battery manufacturers that integrates research & development, production, and sales, an all-rounded manufacturer. Our Lithium-ion Battery division is located in High-tech Zone, Huaibei City, Anhui Province, covering 10000 m<sup>2</sup> land area, with abundant technical strength, continuously introduced advanced automation equipments and a large group of professional production/technical/quality control engineers since established, now there are more than 200 employees, annual output value of 200 million yuan, successively passed the quality/environment/occupational health and safety management system Department certification, IATF16949 system certification, awarded titles of honour: Technology innovation listed enterprise, High-tech enterprise, Provincial Specialized ultra new enterprise, Provincial digital Workshop, Municipal Enterprise Technology Center and so on. Our Nickel battery division is located in the picturesque Zouping area of Shandong province, covering 10000m<sup>2</sup> land area, with distributor or ganization all around China, 100 employees, including 10 R&D person nel, grassroots employees are all veteran employees that worked in the industry for more than 5 years, annual output value of 60 million yuan.

At present, there are two major series of our cylindrical lithium-ion battery products: power type and volumetric type, type number including 10440、14280、14430、14500、18650、21700、26650、26700、32700 etc. Widely used in personal care products, Electric two wheelers, Electric tools, energy storage& medical equipment, lighting, etc. In addition to regular ternary material series, lithium-manganese series, lithium-iron series, we are also further researching in advanced material such as sodium battery, Lithium-manganese-iron battery, as well as "Ultra-low temperature" and "pin-prick test" field, currently we already launched mature products on market. The main type number of our nickel battery is AA, 2/3AA, 4/5AA, 5/7AA AAA, 2/3AAA, 4/5AAA, N、2/3N、A、SC、C、D these series, nickel series products have been certified in the market for over 20 years, which is in the lead of similar products in terms of energy density, rate performance, cycle life, and self discharge, we can also design and customize various types

according to our customer's requirements. At present, our company has obtained 10 ten invention patents, fifteen software copyrights and twenty utility models, also established industry university research cooperation bases with Harbin Institute of Technology and Huaibei Normal University established R&D center with Shanghai Jiao Tong University. We have already developed into one of the most professional suppliers of high-end lithium-ion&nickel batteries in China, relying on our own research capabilities and innovative mechanisms.

our company has mature technology and complete automated production equipment, the production equipment mainly includes: 650l fully automatic planetary mixer、double-sided extrusion coating machine、rolling cutting machine、forming and winding integrated machine、X-RAY、100PPM assembly line、automatic electrolyte injecting machine, with a daily output of 500000 pcs 18650 batteries, 300000 pcs 14500 batteries, guided by the Six Sigma standard, lean production management is implemented, by means of gamma rays, CCD, X-RAY, tracking back from scanning code, we can achieve quality monitoring throughout the entire production line, process line one-to-one

Quality is first life of enterprise, it reflects the comprehensive competitiveness. we have established a complete quality management system forming a entire quality management chain from supplier management to process quality management to customer management, interlocking and guarantees the quality and service of products from the system.

**10000** m<sup>2</sup>

Factory land area

**200** +

Employees

**6000** Thousand

Nickel factory annual output value

# COMPANY ADVANTAGE



## Four competitive advantage

Quality is firstlife of enterprise, it reflects the comprehensive competitiveness. we have established a complete quality management system forming a entire quality management chain from supplier management to process quality management to customer management, interlocking andguarantees the quality and service of products from the system.



### System construction

At present, we already passed the preliminary review of the four major energy system certifications: ISO9001, ISO14001, and OHS AS1800



### Comprehensive Organizational Structure

Our company introduces advanced managem entcon- cepts, establishes comprehensive org anizationastruc- ture for each departments, en sures the flow of resources and information in order, stabilizes & enhances the efficiency and role of the resources shared by our com- pany in achieving its common value objective s



### Reliability Laboratory

Our company has invested 5 million yuan to build reliability laboratory, which can indepe ndently complete high- low temperature stor age experiments, cycle life experiments, thermal shock experiments, salt spray experiments, free-fall experiments, vibration experime nts, short circuit experiments, and multiple c hemical testing experiments for raw materials.



### Rocess-Quality control

Use advanced quality statistical analysis tool s to perform SPC control on key processes. Establish QCC or Six Sigma improvement tea ms for difficult issues; Fundamentally improve where the problem lies, increase product q ualification rates, guarantees the consistency of product, and finally meet customer's req uirements.



Company  
advantage



LITHIUM-ION BATTERY



Ah500



Ah500



Ah600



Ah600



Ah800

BATTERY PARAMETERS

Description	Specification	Characteristic Parameter						
		SIZE ( OD*HEIGHT)	Rated Voltage	Rated Capacity	Charge rate	Discharge rate (Maxium continuous disscharge rate)	ACR	Cycle Life
Lithium-ion Battery	10440-320	10.1*43.5mm	3.7V	320mAh	1C	3C	≤80mΩ	300 weeks
	14280-450	14.2*27.4mm	3.7V	450mAh	1C	3C	≤80mΩ	300 weeks
	14500-500	14.1*49.5mm	3.7V	500mAh	1C	5C	≤50mΩ	500 weeks
		14.1*49.5mm	3.2V	500mAh	1C	3C	≤50mΩ	1000 weeks
		14.1*49.5mm	3.2V	600mAh	1C	3C	≤60mΩ	1000 weeks
	14500-600	14.1*49.5mm	3.7V	600mAh	1C	3C	≤60mΩ	300 weeks
	14500-600	14.1*49.5mm	3.7V	600mAh	1C	5C	≤50mΩ	500 weeks
	14500-800	14.1*49.5mm	3.7V	800mAh	1C	3C	≤50mΩ	600 weeks

APPLICATION TERMINAL

Personal care area products such as shavers, electric hair clippers, electric toothbrushes,electric nose hair clippers;  
small electric tool such as electric screwdriver.



## LITHIUM-ION BATTERY



2500mAh



1800mah



2000mah



2200mAh



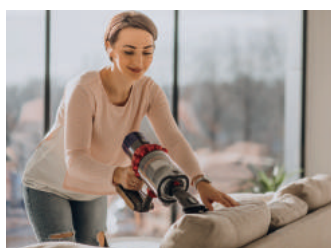
1500mAh

## BATTERY PARAMETERS

Description	Specification	Characteristic Parameter						
		SIZE (OD*HEIGHT)	Rated Voltage	Rated Capacity	Charge rate	Discharge rate (Maxium continuous disscharge rate)	ACR	Cycle Life
Lithium-ion Battery	18650-1500	18.4*65.3mm	3.7V	1500mAh	1C	5C/15C	≤20mΩ	300 weeks
		18.4*65.3mm	3.7V	1800mAh	1C	5C	≤18mΩ	300 weeks
	18650-2000	18.4*65.3mm	3.7V	2000mAh	1C	5C/10C	≤18mΩ	300 weeks
		18.4*65.3mm	3.7V	2600mAh	1C	5C	≤18mΩ	300 weeks
Lithium-ion Battery	18650-2000	18.4*65.3mm	3.7V	2000mAh	1C	3C	≤40mΩ	300 weeks
	18650-2200	18.4*65.3mm	3.7V	2200mAh	1C	3C	≤40mΩ	500 weeks
	18650-2500	18.4*65.3mm	3.7V	2500mAh	1C	3C	≤30mΩ	500 weeks
	18650-3000	18.4*65.3mm	3.7V	3000mAh	1C	3C	≤50mΩ	300 weeks

## APPLICATION TERMINAL

Specification:18650-1500、18650-2000  
used in vacuum cleaner、Electric tool



Specification:18650-2000、18650-2200、18650-2500、18650-3000  
used in Electric two wheelers、scooter、balance vehicle, electric toothbrush-  
es、electric wheelchair、massage instruments、high-end lighting lamps (ishing  
lights, stage atmosphere lights) ; Household energy storage

NICKEL CADMIUM BATTERY



2/3AA450



2/3AA400



AA600



AA800



AA900

BATTERY PARAMETERS

Description	Specification	Characteristic Parameter						
		SIZE (OD*HEIGHT)	Rated Voltage	Rated Capacity	Charge rate	Discharge rate (Maxium continuous disscharge rate)	ACR	Cycle Life
Nickel Cadmium Battery	AA600	14*48.8mm	1.2V	600mAh	1C	2C	≤30mΩ	300 weeks
	AA500	14*48.8mm	1.2V	500mAh	1C	2C	≤30mΩ	300 weeks
	AAA350	14*48.8mm	1.2V	350mAh	1C	2C	≤30mΩ	300 weeks
	AAA400	14*48.8mm	1.2V	400mAh	1C	2C	≤30mΩ	300 weeks
	2/3AA400	14*48.8mm	1.2V	400mAh	1C	2C	≤30mΩ	300 weeks
	2/3AA450	14*48.8mm	1.2V	450mAh	1C	2C	≤30mΩ	300 weeks

APPLICATION TERMINAL

Not environmental friendly , not applicated to Europea and America ; Low cost , High security, widely used in developing countries.  
Application area : personal care area products such as shavers, electric hair clippers;Lighting tools （flashlights, emergency lights, lawn lights） .



## NICKEL METAL HYDRIDE BATTERY



2/3N450



N600



AAA600



AA600



AA600

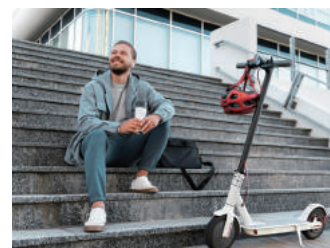
## BATTERY PARAMETERS

Description	Specification	Characteristic Parameter						
		SIZE (OD*HEIGHT)	Rated Voltage	Rated Capacity	Charge rate	Discharge rate (Maxium continuous disscharge rate)	ACR	Cycle Life
Nickel Metal Hydride Battery	AA600	14*48.8mm	1.2V	600mAh	0.5C	2C	≤30mΩ	300 weeks
	AA800	14*48.8mm	1.2V	800mAh	0.5C	2C	≤25mΩ	300 weeks
	2/3AA400	14*48.8mm	1.2V	400mAh	0.5C	2C	≤30mΩ	300 weeks
	2/3AA600	14*48.8mm	1.2V	600mAh	0.5C	2C	≤30mΩ	300 weeks
	AAA400	14*48.8mm	1.2V	400mAh	0.5C	2C	≤30mΩ	300 weeks
	AAA600	14*48.8mm	1.2V	600mAh	0.5C	2C	≤30mΩ	300 weeks
	N600	14*48.8mm	1.2V	600mAh	0.5C	2C	≤30mΩ	300 weeks
	2/3N300	14*48.8mm	1.2V	300mAh	0.5C	2C	≤35mΩ	300 weeks

## APPLICATION TERMINAL

Environmental , cost high , It can be used in Europe, but due to its lower cost-effectiveness compared to lithium-ion batteries, it is less commonly used; Due to its higher safety than lithium batteries, it is highly approved in Japanese market.

Application areas: shavers, electric hair clippers, household energy storage, Nickel Metal Hydride Battery Electric two wheelers.



LITHIUM-ION BATTERY PACK (CUSTOMIZABLE ACCORDING TO CUSTOMER NEEDS)



BATTERY PARAMETERS

Description	Specification	Performance	Application area
18650 2Ah 11.1V 3S1P	out going wire with PH2.0/XH2.54 connector	0.5C charge-discharge for 500weeks, 3C discharge applied	toys、massageinstruments、 medical equipment
18650 2.5Ah 11.1V 3S1P	out going wire withPH2.0/XH2.54 connector	0.5C charge-discharge for 500weeks, 3C discharge applied	toys、 massageinstruments、 medical equipment
18650 2Ah 7.4V 2S1P	out going wire withPH2.0/XH2.54 connector	0.5C charge-discharge for 500weeks, 3C discharge applied	toys、 massageinstruments、 medical equipment
18650 2.5Ah 7.4V 2S1P	out going wire withPH2.0/XH2.54 connector	0.5C charge-discharge for 500weeks, 3C discharge applied	toys、 massageinstruments、 medical equipment
2410module (Lithium iron)	with Protective board,Anderson connector	0.5C charge-discharge for 1000weeks, 2C discharge applied	Electric forklifts, electric two wheelers, electric wheel chair
2415module (Lithium iron)	with Protective board,Anderson connector	0.5C charge-discharge for 1000weeks, 2C discharge applied	Electric forklifts, electric two wheelers, electric wheel chair
4810module (Lithium iron)	with Protective board,Anderson connector	0.5C charge-discharge for 1000weeks, 2C discharge applied	Electric forklifts, electric two wheelers, balanced vehicle,scooters
4815module (Lithium iron)	with Protective board,Anderson connector	0.5C charge-discharge for 1000weeks, 2C discharge applied	Electric forklifts, electric two wheelers, balanced vehicle,scooters
4820module (Lithium iron)	with Protective board,Anderson connector	0.5C charge-discharge for 1000weeks, 2C discharge applied	Electric forklifts, electric two wheelers, balanced vehicle,scooters

APPLICATION TERMINAL

Application area:toys,massage instruments,medical equipment,Electric forklifts,electric two wheelers,electric wheel-chairs,scooter、 balance vehicle.



## Ningbo Siehope Technology Co., Ltd.

A Lithium-ion power battery & Nickel battery manufacturers that integrates research&development, production, and sales.



Professional Lithium-ion Power & Nickel Battery Manufacturer



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