

CLDp®

Zn-Ni

RECHARGEABLE BATTERY

Chinese Power
Since 1998



Chilwee Group
Henan Chaoli New Energy Co., Ltd



—CLEAN LIFE & DREAM POWER—

Electricity

It is the power endowed by nature, humans use it for development
But ignored the burden on the environment.

Today

We are determined to use 20 years of technology accumulation
and persistence for the future
To provide safe and Eco-friendly zinc-nickel rechargeable batteries
for every family.

It is green energy in the intelligent era
It is a constant belief to achieve sustainable energy development
It is also a responsibility to benefit future generations

It's the
power of dreams

It is also
For a clean and better life for human

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CHILWEE GROUP






GROUP PROFILE

Founded in 1998 and listed on the Hong Kong Main Board in 2010, CHILWEE Group is a leading lead acid battery manufacturer, operator and service provider in China and revenue reached \$400 billion by 2021.

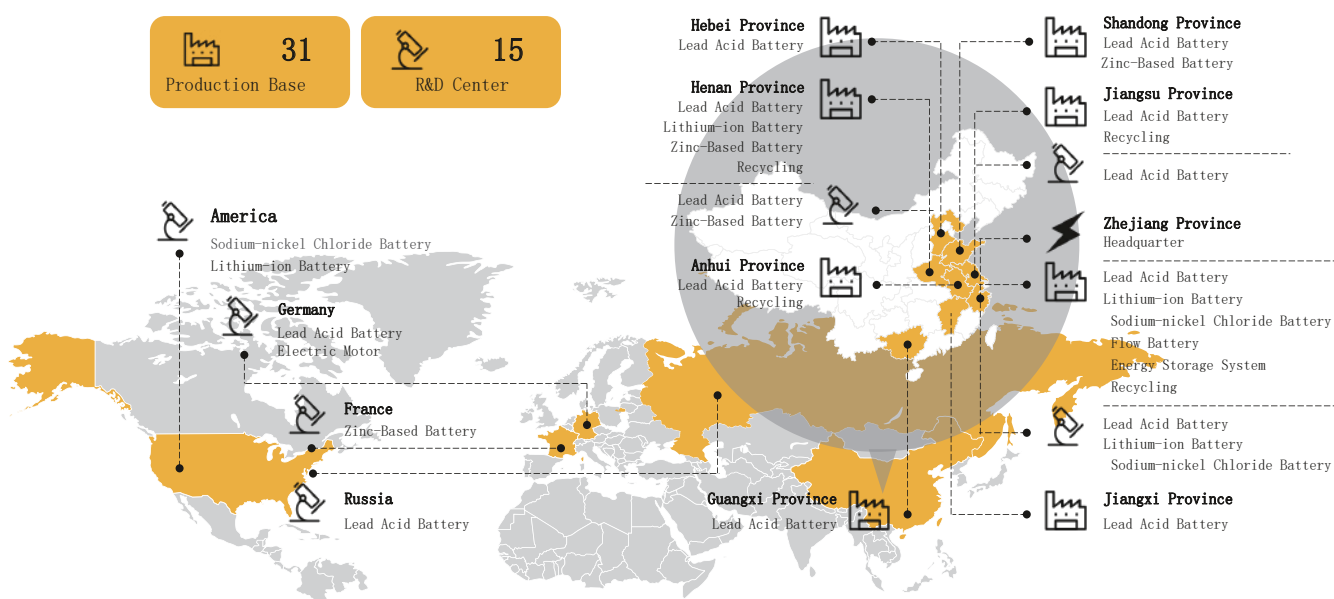
As one of top 500 chinese enterprises, Chilwee Group has 108 subsidiaries with over 20,000 employees, 15 R&D Centers around the world are committed to developing different types of new rechargeable batteries.

Chilwee was listed on the main Board of The Stock Exchange of Hong Kong in 2010, ranked No.162 in "Top 500 Chinese Enterprises " and No.1 in "Top 10 New Energy Batteries".



-  **300000+**
Sale Network
-  **20000+**
Employee
-  **\$4000+**
Million Revenue
-  **100+**
Subsidiary
-  **15+**
R&D Center

Global Network



ABOUT US

Henan Chaoli New Energy Co., Ltd.

Henan Chaoli New Energy Co., Ltd. was established in 2015 and is controlled by Chilwee Group. Chaoli is a high-tech enterprise integrating R&D, production and sales of zinc-nickel rechargeable batteries. Our company's core R&D members come from high-end scientific research institutions of China, United States, Germany and other countries. They have 20 years of experience in zinc-nickel battery research and development and have been republished more than 42 core patents. They have jointly led the establishment of China's first industry standard for zinc-nickel batteries, the "General

**Henan Chaoli New Energy Co., Ltd is
invested and controlled by Chilwee Group.**

Specification for Zinc-Nickel Storage Batteries" (S-J/T11755-2020). Chaoli has become the world's leading manufacturer of zinc-nickel batteries.

Chaoli Zn-Ni rechargeable battery have been sold to more than 100 countries. We providing one-stop service including design, packaging, technical support, sales assistance and after sales. We are recognized and highly appreciated by European and America retailers.



FOUNDER

MINGYU WANG

王明煜

Vice President of Chilwee Group Research Institute

- CEO of Henan Chaoli New Energy Co., Ltd.
- Senior Engineer
- Research supervisor



Let us join hands to create a harmonious and beautiful future!

Mission:

Advocate green energy and perfect human life.

Vision:

To provide safe and Eco-friendly zinc-nickel rechargeable batteries for every family.

CEO's Message

The Road to Clean Life Dream Power:

For more than 20 years, we have been focusing on R&D, production and sales of clean, safe and recyclable batteries to provide better solutions for each customer. We sincerely seek to solve the problems of resource constraints, environmental pollution, and battery fire and explosions that the world faces now and in the future. Our mission is "Advocate green energy and perfect human life" to achieve a sustainable society and leave a better earth to our descendants.

To achieve this goal, we are rapidly and flexibly popularizing safe and environmentally friendly water-based zinc-nickel rechargeable batteries to solve the problems of fire and explosion, environmental pollution and resource waste caused by other batteries. Based on the technological development capabilities and high-quality product reserves of our Chilwee Group•Chaoli New Energy, we are making the right changes that humans need in terms of energy. Inspired by strong determination, we are focusing all our efforts to further develop our technology and go beyond the standard concept of batteries to create a new clean energy value system.

OUR HONORS

INDUSTRY STANDARD



As the drafting unit of China's zinc-nickel battery industry standard, we have published more than 40 patents. Zn-Ni batteries meet industry quality, safety and environmental standards.



—— SJ/T 11755-2020 ——
standard was implemented on October 1, 2020

PRODUCT CERTIFICATE



— ISO9001 —



— ISO14001 —



— ISO45001 —



— CE —



— REACH —



— RoHS —



— CB —

Patents Display



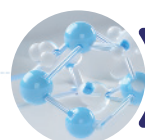
Zn-Ni

Rechargeable Battery



Electrolyte

Water-based electrolyte are safe without any fire or explosion



Negative electrode

ECO-friendly zinc and zinc oxide are wide-temperature



Diaphragm

Double-layer composite material are discharged at 0.1-10C

ZINC ION IS SAFE

Free of mercury, cadmium, and lead, reducing environmental pollution.



RECYCLING

Rechargeable, reducing usage costs



DURABLE

1.6V working voltage, strong power, no fire or explosion.



The only battery you need

1.6V CLDP cell is the best rechargeable battery in civilian, which will replace Ni-Mh and alkaline battery in future.

Advantages of alkaline batteries

Use immediately

Long storage life

Compatibility

Safe and reliable

Advantages of rechargeable batteries

Eco-friendly

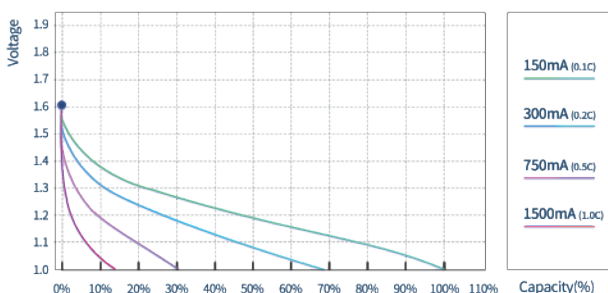
Reusable

Durable

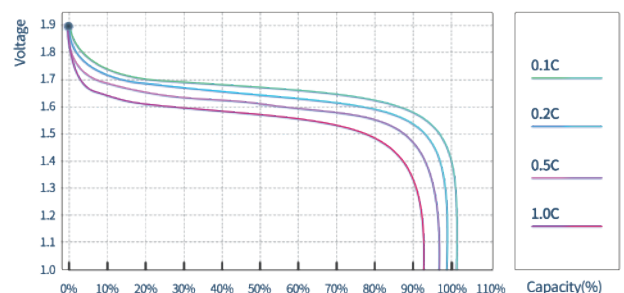
Stronger power



Dry battery discharge at different rate



Zn-Ni battery discharge at different rate



VS

Zn-Ni battery has excellent power performance. The difference in battery discharge efficiency is small when discharging with different current.

Zn-Ni battery can be applied to various types of electrical appliances and have a wider range of applications.

Zn-Ni

RECHARGEABLE BATTERY

Max

Stronger power rechargeable batteries for high power required and professional appliances.

Technical Specification

Type	Voltage	Power	Size	Weight
AA	1.6V	2500mWh	H:50±0.5mm D:14±0.5mm	23.5±0.5g
AAA	1.6V	900mWh	H:44±0.5mm D:10±0.5mm	10.5±0.3g

Packing Information

Type	Pack	Inner Box	Carton	Size	Weight
AA	4pcs/card	40pcs	800pcs	455*290*205mm	21.4kg
AAA	4pcs/card	40pcs	800pcs	350*280*205mm	9.7kg



Zn-Ni

RECHARGEABLE BATTERY

Standard

Standard batteries for all 1.5V household appliances.

Technical Specification

Type	Voltage	Power	Size	Weight
AA	1.6V	1500mWh	H:50±0.5mm D:14±0.5mm	19.5±0.5g
AAA	1.6V	700mWh	H:44±0.5mm D:10±0.5mm	10.0±0.3g

Packing Information

Type	Pack	Inner Box	Carton	Size	Weight
AA	4pcs/card	40pcs	800pcs	455*290*205mm	17.6kg
AAA	4pcs/card	40pcs	800pcs	350*280*205mm	9.3kg



Zn-Ni

RECHARGEABLE BATTERY

Life

Basic rechargeable batteries for daily use.

Technical Specification

Type	Voltage	Power	Size	Weight
AA	1.6V	800mWh	H:50±0.5mm D:14±0.5mm	13.5±0.5g
AAA	1.6V	500mWh	H:44±0.5mm D:10±0.5mm	8.3±0.3g

Packing Information

Type	Pack	Inner Box	Carton	Size	Weight
AA	4pcs/card	40pcs	800pcs	455*290*205mm	12kg
AAA	4pcs/card	40pcs	800pcs	350*280*205mm	8.9kg



Zn-Ni

BATTERY CHARGER

Charger

Designed for Zn-Ni battery, which can recover the battery when charging.
It can charge AA and AAA batteries at the same time.

Technical Specification

Type	Battery	Channel	Input	Output	Indicator Light	Size	Weight
CLA42U	1.6V AA AAA	4	DC 5V 1A/2A	1.88V 250mA*4	Red/Green	85*70*24.5mm	51.6g
CLA23U	1.6V AA AAA	2	DC 5V 1A/2A	1.88V 250mA*2	Red/Green	77*36*23.5mm	25.2g

Packing Informantion

Type	Pack	Carton	Size	Weight
CLA42U	1pcs/box	100pcs	420*320*230mm	8.5kg
CLA23U	1pcs/box	200pcs	420*320*230mm	9.2kg



USB

Rechargeable Battery



Type-C charging cable
(included)



Zn-Ni

RECHARGEABLE BATTERY

USB Type-C

Easy and Convenient to charge anywhere.

Technical Specification

Type	Voltage	Power	Size	Weight
AA	1.6V	2000mWh	H:50±0.5mm D:14±0.5mm	21.5±0.5g
AAA	1.6V	500mWh	H:44±0.5mm D:10±0.5mm	8±0.3g

Packing Information

Type	Color Box	Carton	Size	Weight
AA	4pcs	336pcs	330*215*240mm	10.8Kg
AAA	4pcs	336pcs	330*215*240mm	7.0Kg



Zn-Ni

RECHARGEABLE BATTERY

USB Type-C

Easy and Convenient to charge anywhere.

Technical Specification

Type	Voltage	Power	Size	Weight
AA	1.6V	2000mWh	H:50±0.5mm D:14±0.5mm	21.5±0.5g
AAA	1.6V	500mWh	H:44±0.5mm D:10±0.5mm	8±0.3g

Packing Information

Type	Inner Box	Carton	Size	Weight
AA	2pcs	288pcs	330*215*240mm	10.8Kg
AAA	2pcs	288pcs	330*215*240mm	8.0Kg



Zn-Ni

RECHARGEABLE BATTERY

USB Type-C

Easy and Convenient to charge anywhere.

Technical Specification

Type	Voltage	Power	Size	Weight
AA	1.6V	1800mWh	H:50±0.5mm D:14±0.5mm	21.5±0.5g
AAA	1.6V	500mWh	H:44±0.5mm D:10±0.5mm	8±0.3g

Packing Information

Type	Pack	Inner Box	Carton	Size	Weight
AA	4pcs/card	40pcs	400pcs	500*210*230mm	12kg
AAA	4pcs/card	40pcs	400pcs	500*210*230mm	6.5kg



Lithium-ion

RECHARGEABLE BATTERY

USB Type-C

1.5V constant voltage. 2H fast full charge.

Technical Specification

Type	Voltage	Power	Size	Weight
AA	1.5V	2600mWh	H:50±0.5mm D:14±0.5mm	17.5±0.5g
AAA	1.5V	750mWh	H:44±0.5mm D:10±0.5mm	7±0.3g

Packing Information

Type	Inner Box	Carton	Size	Weight
AA	4pcs	368pcs	500*210*240mm	9.6Kg
AAA	4pcs	368pcs	500*210*240mm	5.7Kg



Lithium-ion

RECHARGEABLE BATTERY

USB Type-C

Various models for your choice.

Technical Specification

Type	Voltage	Power	Size	Weight
9V	9V	350mAh	H:48 x W:17 x L:26±0.5mm	23.3±0.5g
C	1.5V	3000mWh	H:49±0.5mm D:25.5±0.5mm	36.1±0.5g
D	1.5V	6300mWh	H:61±0.5mm D:33.6±0.5mm	88.2±0.5g

Packing Information

Type	Inner Box	Carton	Size	Weight
9V	2pcs	184pcs	500*210*240mm	6.5Kg
C	2pcs	120pcs	500*210*240mm	6.7Kg
D	1pcs	52pcs	500*210*240mm	5.1Kg



D | 6300mWh
1.5V Lithium-ion



C | 3000mWh
1.5V Lithium-ion



9V | 350mAh
9V Lithium-ion



Clean Life & Dream Power

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