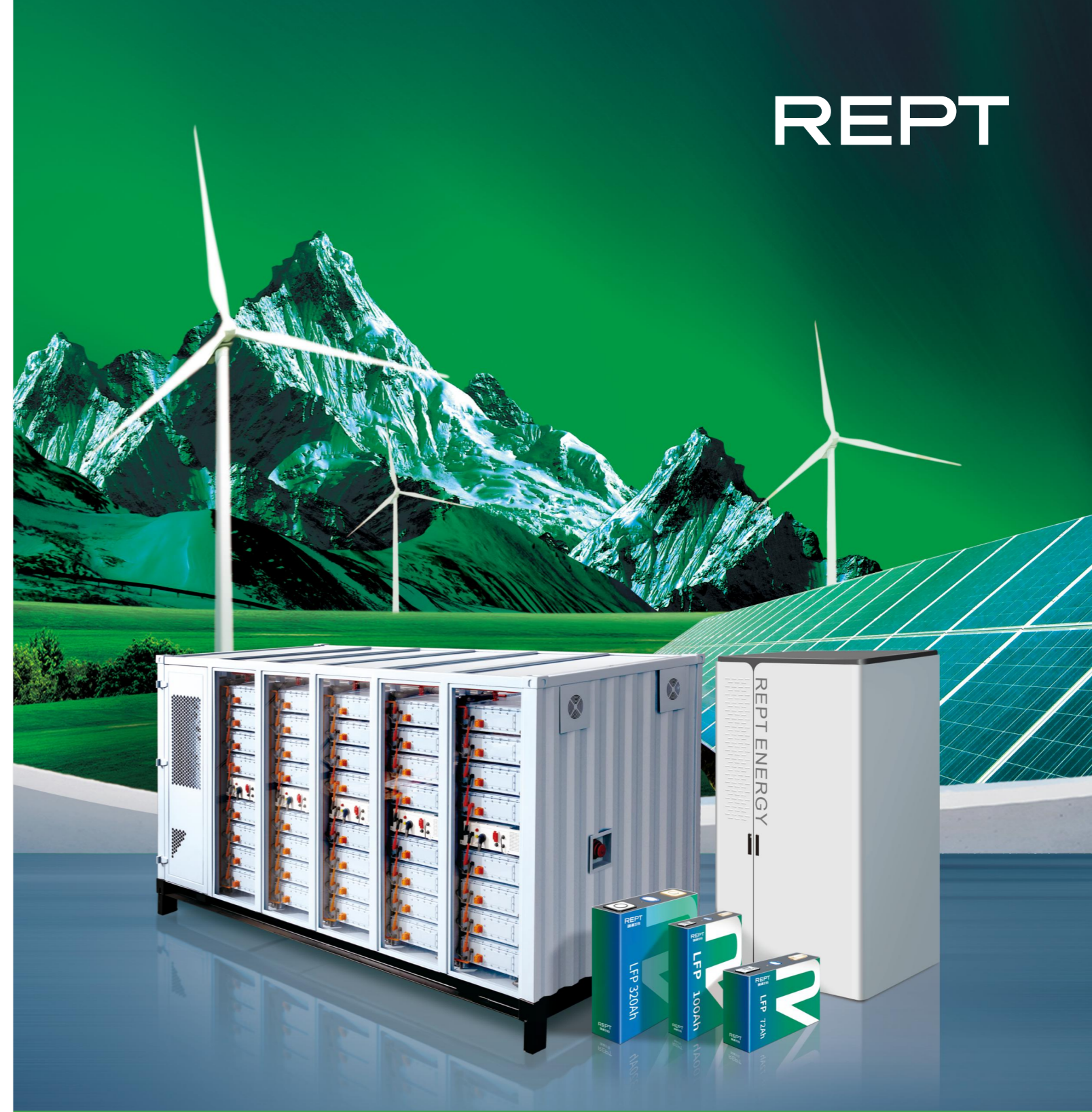


REPT

Innovate Smart Energy
Illuminate Green Future



REPT BATTERO Energy Co., Ltd.

GLOBAL HEADQUARTERS

Add: No. 205, Binhai 6th Road, Airport New Area,
Longwan District, Wenzhou City, Zhejiang Province
E-mail: market@chinarept.com
Tel: 0577-86865888

R&D CENTER

Add: Dingxin Building, No. 1255 Jinhai Road,
Pilot Free Trade Zone, Pudong New Area, Shanghai
E-mail: market@chinarept.com

Manufacturing base: Wenzhou | Jiashan | Liuzhou | Foshan | Chongqing

Stock code **REPT**
0666.HK

REPT BATTERO

AN EXPERT IN NEW ENERGY BATTERY STORAGE

Stock code **REPT**
0666.HK



WITH STRONG BACKGROUND AND STRENGTH, TSINGSHAN HOLDING GROUP STARTED ITS BUSINESS EXPLORATION IN THIS BATTERY SECTOR.

With its business deeply rooted in the stainless steel industry, Tsingshan Holding Group is committed to producing high-quality, low-cost, energy-saving and environmentally friendly stainless steel products. It produces beautiful and hygienic stainless crude steel products to meet people's increasing demand for a better life. At the same time, it is actively exploring its business in the field of new energy, aiming to contribute to the green and sustainable development for mankind.

NO.1

Ranking of global stainless steel crude steel production

NO.1

Ranking of global nickel metal production

NO.257

Ranking in Fortune Global 500 2023

382 BILLION

Sales Revenue of 2023

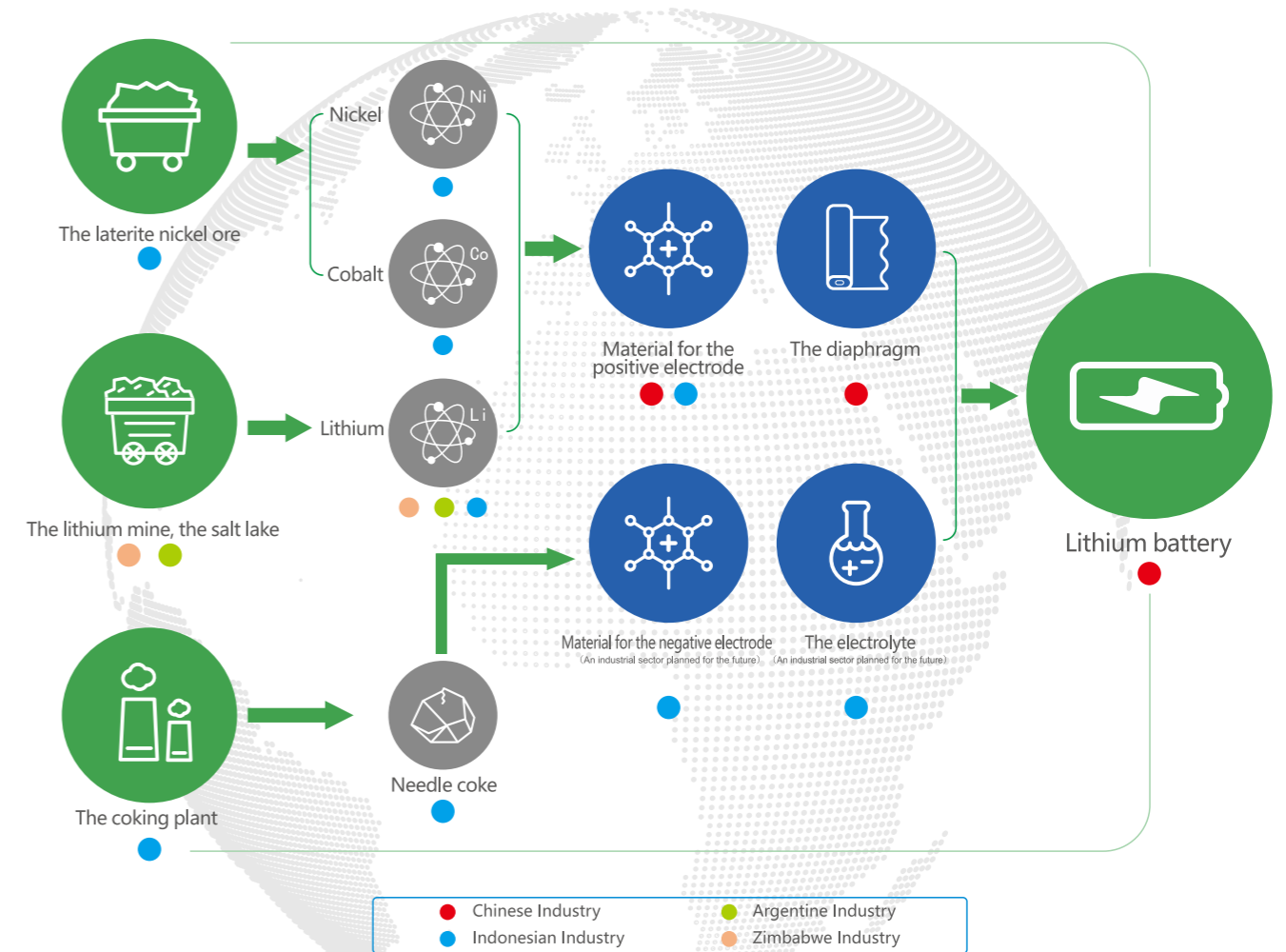
140000+

Total number of employees in 2023

Stock code REPT **0666.HK**



TSINGSHAN VENTURES ITS THIRD "ENTREPRENEURSHIP" IN THE NEW ENERGY INDUSTRY CHAIN.



UNIQUE ADVANTAGES

• RAPID EXPANSION OF THE INDUSTRIAL CHAIN

• Tsingshan Holding Group has been expanding its presence in the lithium-ion battery industry through direct control and equity investment in various areas of the value chain of the lithium-ion battery industry.

• RESOURCE INTEGRATION AND SYNERGY

• Backed with the integrated industrial chain, a stable supply chain in long-term, industrial chain backward integration that is acceptable to market-based rules and conducive to commercial conditions, tsingshan has been developing more power for business bargaining and negotiating.

ABOUT REPT

Rept battero energy co., ltd. Is one of the fastest growing lithium-ion battery manufacturers in china. It has been committed to r&d, manufacturing, and sales of lithium-ion power battery products and energy storage battery products.

Total sales revenue in 2023
13.7bn
137亿元



500%
The company's shipments increased by 500% year-on-year.

2023 Global ESS Ranking
NO.4

NO.1
The company's lithium battery installations ranked NO.1 in terms of compound annual growth rate.

2023 LFP power battery enterprise installation volume
NO.6

150GWh+
The company plans to reach a total capacity of 150GWh+ in 2025.



R&D EXPERTISE



FIVE CONTINENTS
The company has established business bases on five continents.



MILESTONES

2023

- 2023.02 Chongqing 30GWh Production Base Project Officially Signed
- 2023.03 Signing of Wenzhou Manufacturing Base (Phase III) Project
- 2023.05 Energy Vault Signs 10GWh Energy Storage Battery Supply Agreement
- 2023.09 Official Launch of REPT BATTERO's European Subsidiary
- 2023.12 REPT BATTERO successfully landed on the Hong Kong Stock Exchange Translated with DeepL.com (free version)

2022

- 2022.01 The Company established deep cooperations relations with CLOU and Powin.
- 2022.03 REPT SAIC and SAIC REPT signed a contract with a 20GWh project.
- 2022.09 The company's monthly shipments exceeded 2GWh, while its manufacturing base in Wenzhou Phase III started construction.
- 2022.12 The annual sales revenue exceeded 10 billion yuan, achieving the first stage of the goal "reach 10 billion yuan in the first five years and 100 billion yuan in the next ten years".

2021

- The special long cycle 280Ah battery for energy storage was launched. The Company was accepted as the supplier of the TOP3 terminal supplier system of energy storage.
- 2021.04 The Company established deep cooperations relations with Sungrow.
- 2021.12 The specialized 280Ah battery cells for energy storage were widely used in the North American market.

2020

- 2020.04 The Company established deep cooperative relations with Growatt.
- 2020.06 The Company delivered the Xintai Photovoltaic Power Station 5MW/10MWh Project for the Branch of Pingdu and High-tech Industrial Development Zone, Shandong, State Grid.
- 2020.07 The Company delivered an Energy Storage Project of 130 MWh in Guazhou, Gansu.
- 2020.12 The Company delivered an Energy Storage Project of 2.5 GWh/5 GWh in Langkazi District, Shigatse, Tibet.

2019

- 2019.03 Phase I of the 85 GWh Energy Storage Project on Great and Little Karimun islands in Indonesia was put into operation. With the dedicated 50Ah cells for household storage commercially launched, the Company established deep cooperations with Solax.
- 2019.06 The newly established production line of 3 GWh for the manufacturing base in Wenzhou was put into operation.
- 2019.11 The Company established deep cooperations with EP and reached cooperation intentions with Sungrow.

2018

- 2018.10 The production line with the capacity of 3GWh was officially put into operation.

2017

- 2017.10 REPT was established.
- 2017.12 The construction of manufacturing base in Wenzhou was started.

THE EXCLUSIVE AND ADVANCED TECHNOLOGY WENDING BATTERY

The Integration Of The Cutting-edge Technology In Structure, In Process, And In Equipment For The Cell With The Internal Electrochemical Characteristics And Stable Solid Liquid Interface Is Applicable For Both The Lithium Iron Phosphate Battery Products And Ternary Lithium Battery Products To Facilitate A Cell Of High Energy Density And High Power Density And Enhance The Energy Characteristics And Safety Characteristics Of The Battery.

The utilization ratio of the internal space **7%** Increased by a minimum of



LONG SERVICE LIFE OF 10000 CYCLES

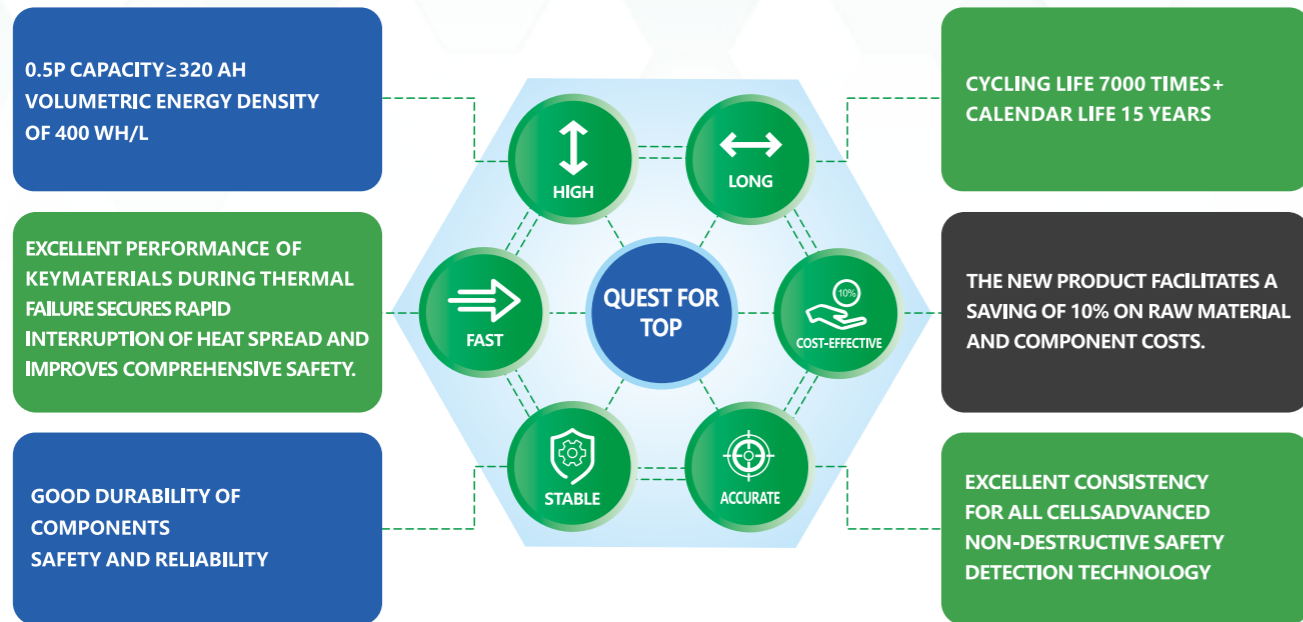
THE NEW GENERATION CELL WITH THE CAPACITY OF 320Ah

SPECIALIZED FOR ENERGY STORAGE

ULTRA-LONG SERVICE LIFE

ULTRA-LARGE CAPACITY

WENDING HEXAGONAL (COVERING 6 DIRECTIONS FOR TECHNOLOGICAL IMPROVEMENT OF THE CELL), INDEPENDENTLY-DEVELOPED TECHNOLOGY IN THE COMPREHENSIVE SCENARIO



R&D EXPERTISE

The hardware configuration and functions of the r&d center fully cover various standard requirements and customer needs in various fields such as vehicle applications. It was accredited by cnas for laboratory certification in July 2021.

200+

Number Of Test Projects

20000

Number Of Test Channels



It Was Accredited By China National Accreditation Service For Conformity Assessment.



Tüv Rheinland Witness Testing Laboratory
Tüv Rheinland Iso26262
Functional Safety Management System (bms)

100+

Number of products certified at home and abroad



Battery Safety



CELLS FOR ENERGY STORAGE SYSTEM

Rept energy storage battery products are mainly lithium iron phosphate battery products, which are widely used in various energy storage scenarios, including household energy storage (household storage), large-scale industrial energy storage (power stations, power grids), and commercial energy storage.

CELLS FOR HOUSEHOLD ENERGY STORAGE

The 50Ah lithium iron phosphate battery developed by rept has been favorably accepted in the household energy storage market ever since its immediate commercial launch. It quickly became a popular product in the industry. It becomes the mainstream product in European and American household storage. In 2023, the product will also be upgraded to 72Ah to accommodate users with higher energy storage needs.

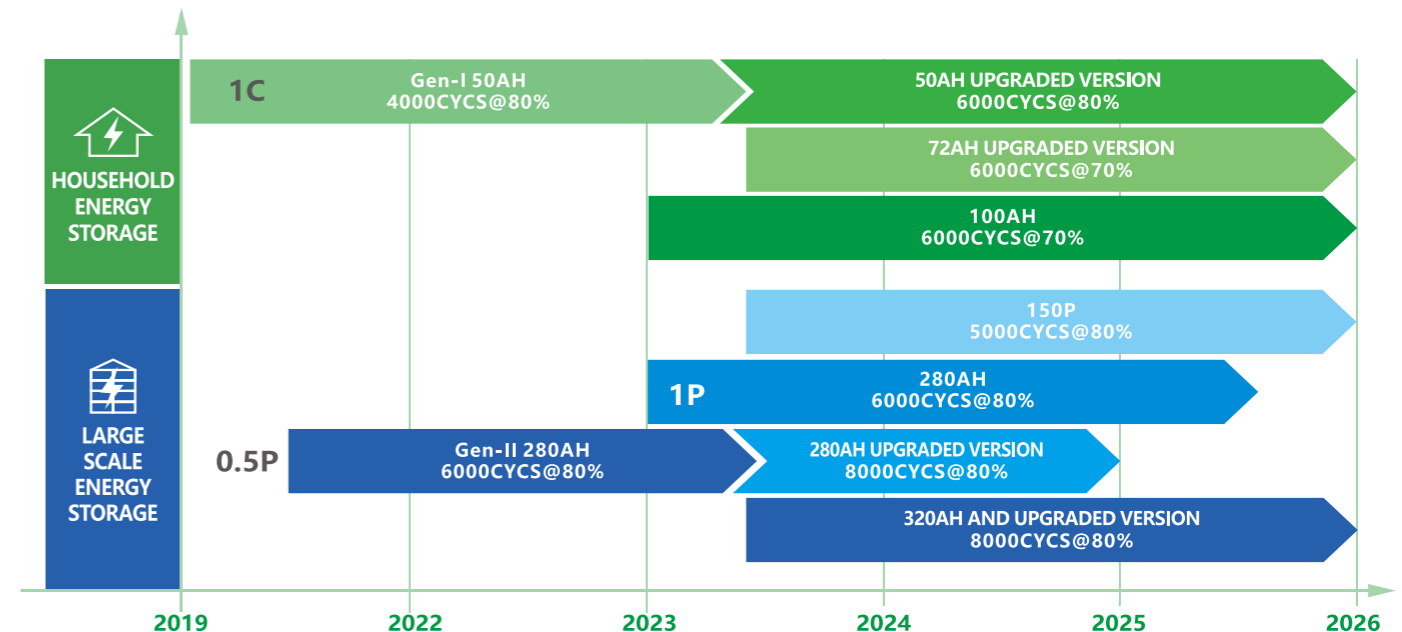
CELLS FOR POWER ENERGY STORAGE

Products in 280Ah series also enjoy a stable market share in the high-end market. In 2023, we will upgrade the capacity of the battery cell. The 320Ah large capacity power cell for product upgrading will also be put into massive production. This product meets domestic and international standards such as GB, UL, IEC, etc.



CELL	50Ah	72Ah	100C/100P	100Ah	CELL	150P	205Ah	280Ah	314Ah	320Ah	345Ah	587Ah
Battery capacity	50Ah	72Ah	100C/100P	100Ah	Battery capacity	150P	205Ah	280Ah	314Ah	320Ah	345Ah	587Ah
Energy density	140Wh/kg	165Wh/kg	170Wh/kg	170Wh/kg	Energy density	170Wh/kg	170Wh/kg	170Wh/kg	179Wh/Kg	179Wh/Kg	185Wh/Kg	185Wh/Kg
Cycling life	4000/6000	6000	3000/6000	4000	Cycling life	6000	4000	8000	12000	12000	12000	12000
Product certification	UL/JET/IEC BIS/UN	IEC/UL/UN	IEC/UL/UN	IEC/UL/BIS/UN	Product certification	TBD	GB/IEC	IEC/GB/UL	UL9540A, UL1973, IEC62619,UL642, GB/T 36276,UN38.3	UL9540A, UL1973, IEC62619,UL642, GB/T 36276,UN38.3	UL9540A, UL1973, IEC62619,UL642, GB/T 36276,UN38.3	TBD

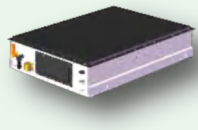



R&D ROADMAP OF REPT



CONTAINERIZED BATTERY SYSTEM WITH LIQUID COOLING





TARGET MARKET: DOMESTIC AND OVERSEAS ELECTRIC POWER MARKET, INDUSTRIAL AND COMMERCIAL APPLICATIONS | 0.5P | DEMAND FOR LIQUID COOLING

					
	Y52 BOXED BATTERY SYSTEM	Y52 CONTAINERIZED BATTERY SYSTEM		Y104 BATTERY MODULE	Y104 LIQUID-COOLED CONTAINER
Form of grouping	1P52S	10P*1P416S	Group	1P104S	12P416S
Nominal voltage	166.4V	1331.2V	Nominal voltage	332.8V	1331.2V
Voltage range	130V~189.8V	1081.6~1497.6V	Voltage range	260V~379.6V	1040V~1500V
Nominal energy	46.592kWh	3.727MWh	Nominal Energy	106496Wh	5.55MWh
Product size	1120×810×238	20HQ	Product size	2150.5*779*250	20HQ
Product mass	~ 330kg	35000kg	Weight	690kg	45T

BATTERY SYSTEM IN AN OUTDOOR CABINET WITH LIQUID COOLING






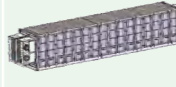
TARGET MARKETS: DOMESTIC AND OVERSEAS ELECTRIC POWER MARKET, INDUSTRIAL AND COMMERCIAL APPLICATIONS | 0.5P | DEMAND FOR LIQUID COOLING, DEMAND FOR FLEXIBLE DEPLOYMENT, TRANSPORTATION WEIGHT LIMITING REGIONS, CAPACITY EXPANSION, PROJECT EXPANSION, AND ENERGY REPLENISHMENT.

				
	HIGH VOLTAGE BATTERY SYSTEM IN OUTDOOR CABINET WITH LIQUID COOLING	LOW VOLTAGE BATTERY SYSTEM IN OUTDOOR CABINET WITH LIQUID COOLING		LIQUID COOLING INTEGRATED MACHINE
Form of grouping	1P416S	208S2P	Rated electricity level	233kWh
Nominal voltage	1331.2V	665.6V	Environmental humidity	5%~95%RH
Voltage range	1081.6~1497.6V	540.8V~748.8V	Rated power	125kW
Nominal energy	372.7kWh	372.7kWh	Product size	1250mm×1350mm×2250mm
Product size	1300mm×1300mm×2300mm		Weight	< 2600kg
Product mass	3.5t	3.5t		

ENERGY STORAGE SYSTEM WITH AIR COOLING



TARGET MARKET: DOMESTIC AND OVERSEAS ELECTRIC POWER MARKET, INDUSTRIAL AND COMMERCIAL APPLICATIONS | 0.5P | DEMAND FOR AIR COOLING

				
	A16 BOXED BATTERY SYSTEM	R15 BATTERY RACKS	R26 BATTERY RACKS	A16 CONTAINERIZED BATTERY SYSTEM WITH AIR COOLING
Form of grouping	1P16S	1P240S	1P416S	14P416S
Nominal voltage	51.2V	768V	1331.2V	1331.2V
Voltage range	40V~58.4V	624V~864V	1081.6V~1497.6V	1081.6V~1497.6V
Nominal energy	14.336kWh	215kWh	372.736kWh	5217.8kWh
Product size	805×523×232	810×1070×2020	810×1600×2350	13716×2438×2896
Product mass	~ 115kg	~ 1850kg	~ 2950kg	45000kg

ADVANTAGES

 **UNIFORM THERMAL CONTROL**

The battery cluster, the module, and all battery cells are designed with parallel air ventilation in thermal design to secure a temperature difference of 3 °C;

 **COMPATIBLE**

Applicable to mainstream BMS in the industry;

 **HIGH-LEVEL SAFETY**

With a DC 5000V withstand voltage without flash-over and multi-level disconnection and protection mechanism, a high-level system safety is secured.

 **DENSE INTEGRATION**

The System facilitates 3.7MWh/40HQ; 5.2MWh/45HQ.

 **LONG SERVICE LIFE**

Specialized cells with a standard cycle of 10000 times dedicated for energy storage adopted in the System secures a continuous operation for 20 years.

 **UPGRADABLE**

Up to 5.9MWh/45HQ

THE COMPANY IS ENGAGED IN PROVIDING EXCELLENT SOLUTIONS AND SERVICES IN VARIOUS SCENARIOS TO GLOBAL CUSTOMERS.



A Solar Energy Storage Project of 5 Mwh In Sangzhuzi District, Shigatse, Tibet.



A Solar Energy Storage Project of 3 Mwh In Wenzhou, Zhejiang



A Solar Energy Storage Project of 10 Mwh In Xintai, Shandong



A Solar Energy Storage Project of 12 Mwh In Guazhou, Gansu



A Project of 118 Mwh In Morowali Park, In Donesia



A Project of 55 Mwh In Weda Bay Park, In Donesia



A Solar Energy Storage Project In Africa



A Solar Energy Storage Project of 200 Mwh In Texas, U.s.



Solar Energy Storage Projects In Germany, France, And Spain

PLANNING FOR GLOBAL INDUSTRIAL LAYOUT

THE COMPANY IS PLANNING FOR A MINIMUM PLANNING PRODUCTION CAPACITY OF 150GWH IN 2025.

IN 2027, IT WILL REACH A SCALE OF 100 BILLION YUAN.

CHINA
Shanghai, Wenzhou, Jiashan, Foshan, Liuzhou, Chongqing
New energy base
R&D Center
Sales/R&D and Production/Service

NORTH AMERICA
R&D Center
Marketing Centre

AFRICA
Marketing Center

EUROPE
Battery Manufacturing Base
R&D Center
Marketing Centre

SOUTH-EAST ASIA
New energy manufacturing base

JAPAN
Marketing Center

SOUTH AMERICA
Marketing Center

AUSTRALIA
Marketing Center

PRODUCTION BASES:
Wenzhou | Liuzhou | Jiashan | Foshan | Chongqing
Indonesia | Europe



▲ The Production Base in Wenzhou



▲ The Production Base in Jiashan









▲ Chongqing Manufacturing Base



▲ The Production Base in Liuzhou

PROMOTING A SUSTAINABLE DEVELOPMENT

HIGH-LEVEL STANDARDS FOR ESG

 CARBON FOOTPRINT MANAGEMENT	 ENERGY UTILIZATION	 CORPORATE SOCIAL RESPONSIBILITY SYSTEM
 DISCHARGE AND UTILIZATION OF WASTE	 BATTERY RECYCLING	 OCCUPATIONAL HEALTH AND SAFETY FOR EMPLOYEES

ESG ACHIEVEMENTS

- APPROVED AS 2022 NATIONAL GREEN FACTORY
- THE COMPANY WAS SELECTED FOR THE LIST OF GREEN AND LOW-CARBON FACTORIES IN ZHEJIANG PROVINCE IN 2021.
- THE COMPANY PASSED THE 2021 "NO WASTE FACTORY" ASSESSMENT IN ZHEJIANG PROVINCE.
- THE COMPANY WAS ACCREDITED FOR ISO45001:2018- OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATION.
- THE COMPANY RECEIVED THE BRONZE MEDAL IN CORPORATE SOCIAL RESPONSIBILITY FROM ECOVADIS, AN INTERNATIONAL BUSINESS SUSTAINABILITY RATING PLATFORM.

