

# ZOE ENERGY STORAGE Dedicated to Being a Global Force in Transforming Energy Structures



ZOE

ZOE Energy Storage EN 25-03

## **ZOE Energy Group**

ZOE Energy Group, established in 2013, is committed to driving the transformation of the global energy structure. Recognized as one of China's Top 500 Energy Enterprises, the Group operates across three business segments:



### **Renewable Power Generation**

With a total capacity exceeding 6GW, backed by over USD 4.1 billion in investments.



### **Energy Storage Systems**

As a Tier 1 global energy storage manufacturer, delivering integrated equipment and solutions.



### **Digital Energy Solutions**

Operating one of the largest and most reliable direct-dispatch virtual power plants in its region, aggregating 300MWh of generation-side capacity and 200MWh of load-side capacity.

## **ZOE Energy Storage**



### **Tier 1 Global Energy Storage Manufacturer**

- Energy storage equipment integration
- Energy storage system solution

### Manufacturing

ZOE

- 4GWh Production Capacity
- Pack+PCS+System Integration line

### **R&D** Innovation

- 100 Core Patents
- Focus on Safety and Stability in Energy Storage Systems

### **High-quality Service**

- Service Areas in Europe, China, and Online Support
- Providing O&M Analysis and Comprehensive After-Sales Service

### Milestone

### Inception >

### 2013

ZOE Energy Group established.

Established operational pho-

annual capacity of 500MW.

2014

tovoltaic module factory, with

## Expansion >

### 2015

Initiated global strategy, invested in overseas markets.

### 2016

Launched the "ZOE Future Home" sub-brand, pioneering into the distributed photovoltaic market with over 2000 residential photovoltaic projects. Honored with the Gold Award in the Chinese residential photovoltaic market.

### 2017

Ranked top five in Chinese photovoltaic module shipments to Australia.

### 2018

Venturing into new energy vehicle industry, invested in aftermarket service platforms.



### Thriving >

### 2019

Secured a 200MW photovoltaic bidding project, the largest single project in the China Southern Power Grid and Guizhou Province.

### 2020

Focused on domestic market, secured a 350MW national photovoltaic bidding project, ranked first among private enterprises in Guizhou Province.

### 2021

Secured new energy projects with a total installed capacity of 1.92GW, including 7 photovoltaic and 2 wind power projects, leading nationally.

### New Chapter >

### 2022

Shanghai ZOE Energy Storage
 Technology Co., Ltd. established
 Established the R&D center,
 successfully developed liquid
 cooling battery energy storage
 system

- Established the ZOE Digital Energy Center
- · Planned Jiangxi energy storage factory

### 2023

· Intensified efforts in expanding global market

• Launched Z BOX liquid cooling battery energy storage system, obtained CGC and CE certification

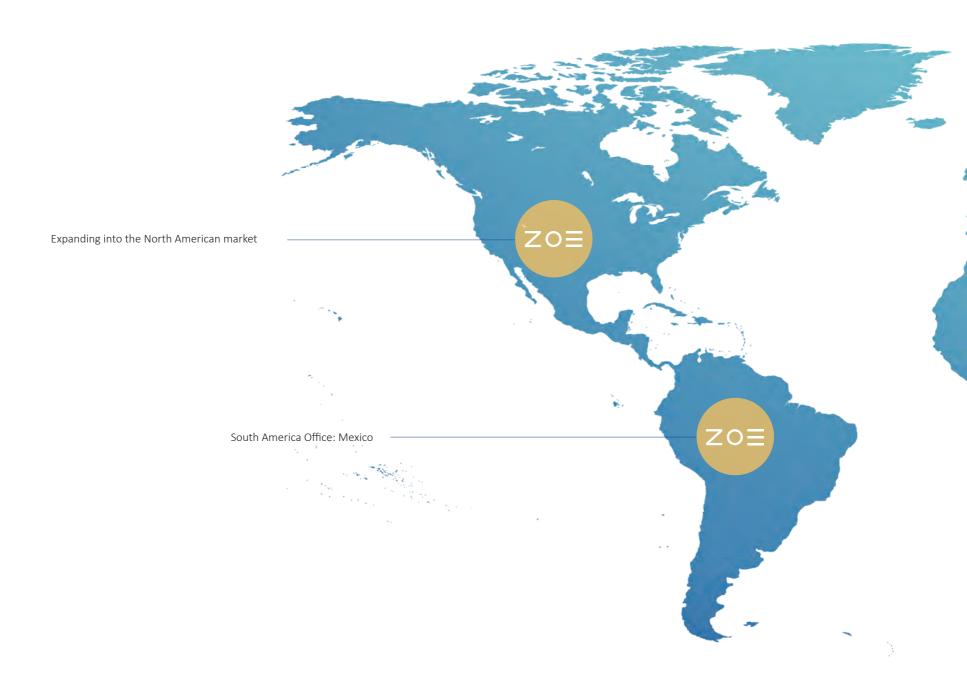
· Launched a 2GWh energy storage factory inJiangxi and planned a new 2GWh factory

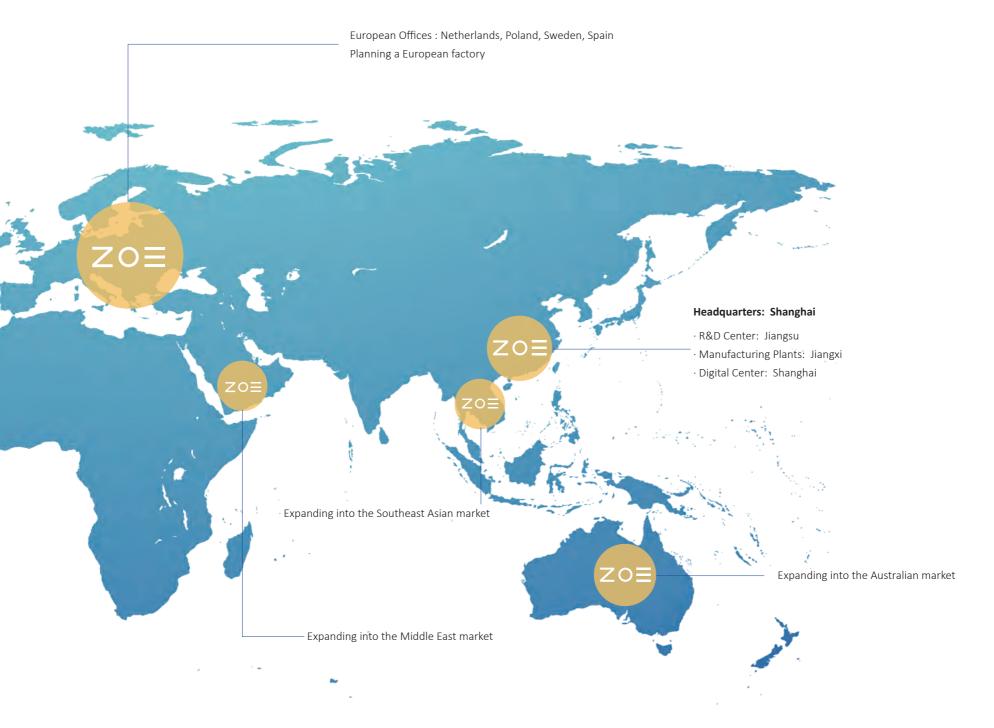
### 2024

The Group is ranked among China's Top 500 Energy Enterprises, recognized as a Tier 1 global energy storage manufacturer, and has become the largest operator of direct-dispatch virtual power plants in Zhejiang.

|  | ZOE | ZOE | ZOE | ZO≡ | ZOE | ZOE |
|--|-----|-----|-----|-----|-----|-----|

## **Industrial Landscape**





### **Product Technology R&D Center**



The R&D team, comprising PhD experts in electrochemistry, power electronics, electrical engineering, and materials science, collaborates with renowned institutions to advance cuttingedge research, foster talent, and drive innovation in energy storage technologies. The team has independently developed core technologies, including EMS, BMS, PCS, and energy storage system integration, securing over 100 patents and software copyrights. Notable achievements include the world's first multi-dimensional acoustic fusion sensor, a revolutionary innovation in safety monitoring; the Z BOX-I, a modular energy storage product with millisecond-level precision; and advanced FFR capabilities that exceed stringent Nordic market requirements, positioning the team among global leaders.



TMP Laboratory by TÜV Rheinland









#### TÜV NORD Witness Laboratory





## **Digital Energy R&D Center**

Focusing on commercial and industrial energy storage needs, ZOE Energy Storage has developed Z-DIGITAL, a digital energy ecosystem that utilizes digital and smart technologies to aggregate diverse energy sources effectively, thus achieving resource optimization, energy management and trading, as well as carbon reduction.



# **Z** Digital



#### Z-EMS Energy Management System

#### Internet of Things

Artificial Intelligence

Energy Monitoring

Smart O&M

Intelligent Strategy

**Battery Diagnostics** 

Asset Profitability



**Z-VPP** Virtual Power Plant

Energy Monitoring

Resource Aggregation

Resource Allocation

Command Decomposition

Transaction Declaration

Transaction Settlement



Z-Zone Zero Carbon Zone System

Power Energy Monitoring

Electrical Safety Alerts

Power Quality Management

Energy Consumption Analysis

Smart O&M

Carbon Management and Services



Z-AMS Asset Management System

Asset Approval

Asset Measurement

Asset Evaluation

Asset Safety



Z-SMS Safety Management System

Cell-Level

Module-Level

Cluster-Level

Station-Level

## Z Digital makes energy management smarter

## Manufacturing

### 4GWh Intelligent Energy Storage Factory





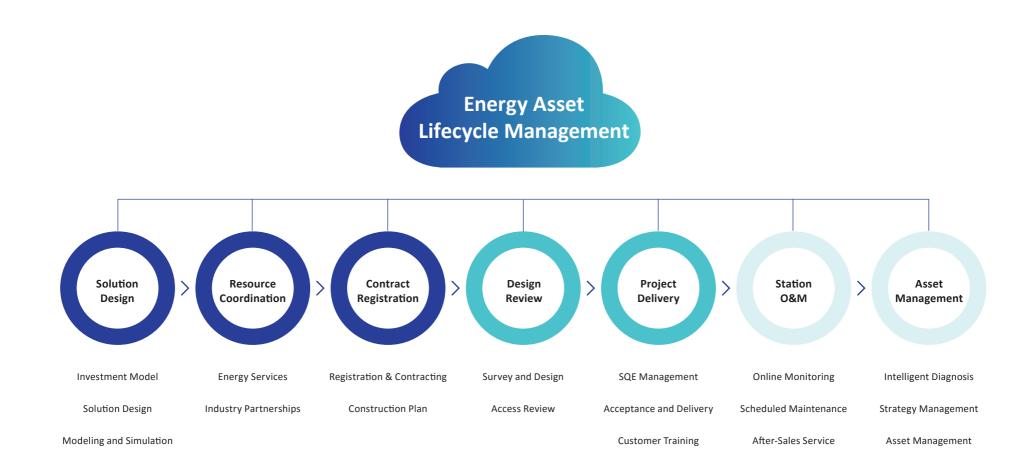






The company operates advanced energy storage factories with a total capacity of 4GWh in China. These facilities include automated Pack, PCS, and system integration lines. Equipped with cutting-edge technology and comprehensive testing capabilities, these factories employ a MES system to collect production, material, process, quality, and other relevant information. This enhances automation, intelligence, and flexibility in production, ensuring the highest standards of safety and quality in our products.

### **Lifecycle Management**





## **ZOE Energy Storage Global Product Series**

Z BOX-H | Z BOX-C | Z BOX-I | Z BOX-P | Z PCS | Z EMS





## ZΟΞ



#### Our products are certified for global safety, quality, and performance standards.

- CE Certified: Compliant with European LVD and EMC standards.
- Grid Connection Certified: Certified under EN 50549-1, compliant with grid requirements in the Czech Republic, Germany, Hungary, Italy, the Netherlands, Norway,

Poland, Spain, Sweden, and the UK.

- Carbon Footprint: Product carbon footprint certified to ISO 14067 standard.



## **Energy Storage Cabinet**



ALL-IN-ONE ESS Cabinet



## ZOΞ

## C 215-2H C215L-A-EU 105kW / 215kWh | 0.5C

| Battery Data                 |                                  |  |
|------------------------------|----------------------------------|--|
| Cell type                    | LFP                              |  |
| Rated capacity               | 280 Ah                           |  |
| Serial-parallel type         | 1P240S                           |  |
| Rated capacity per pack      | 43.008 kWh                       |  |
| Pack number                  | 5                                |  |
| System rated energy capacity | 215.04 kWh                       |  |
| Rated DC voltage             | 768 V                            |  |
| Rated DC voltage range       | 672~864 V                        |  |
| Rated DC current             | 140 A                            |  |
| AC data                      |                                  |  |
| Rated AC power               | 105 kW                           |  |
| Rated AC voltage             | 400 Vac                          |  |
| Rated frequency              | 50/60 Hz                         |  |
| Rated AC current             | 152 A                            |  |
| Max. AC current              | 167 A                            |  |
| AC wiring type               | 3W/N+PE                          |  |
| Power factor                 | -1 ~ 1                           |  |
| General Data                 |                                  |  |
| DOD                          | 95%                              |  |
| Noise                        | ≤75dB                            |  |
| Protection degree            | IP 55 (Battery room&PCS room)    |  |
| Cooling method               | Liquid cooling/ heating          |  |
| Fire suppression system      | Aerosol                          |  |
| Operating temperature range  | -20 ~ 55 ° C ( > 45° C derating) |  |
| Relative humidity            | 5% ~ 95% RH                      |  |
| Max.working altitude         | 2000 m                           |  |
| Display                      | Web/ LED                         |  |
| COM interfaces               | RS485/ Ethernet/ 4G (optional)   |  |
| Dimensions (L*W*H)           | 1344*1399*2080 mm                |  |
| Weight                       | 2450±50 kg                       |  |
|                              |                                  |  |

#### Safe & Reliable

- · Cabinets physically separated for safety
- SMS System for layered security
- · High-quality, efficient lithium batteries
- · Full lifecycle management

#### Cost-efficient

· Rapid power response for virtual power plants, grid connection, and off-grid operation

Intelligent balancing strategies maintain battery consistency

Dynamic energy regulation strategy switching

#### Flexible Deployment

· Modular design for easy expansion

· Enables centralized deployment, decentralized deployment, and integration with solar storage charging

#### Smart Management

· Cloud-edge-end collaboration for 24/7 monitoring, ensuring safe and stable equip-

ment operation

 $\cdot$  Cloud-based big data and intelligent algorithms for flexible system strategy adjustment

## **Energy Storage Cabinet**



## H 372-2H C372L-D-EU 372kWh | 0.5C

| Battery Data                 |                 |  |
|------------------------------|-----------------|--|
| Cell type                    | LFP             |  |
| Rated capacity               | 280 Ah          |  |
| Serial-parallel type         | 1P416S          |  |
| Rated capacity per pack      | 46.592 kWh      |  |
| Pack number                  | 8               |  |
| System rated energy capacity | 372.736 kWh     |  |
| Rated DC voltage             | 1331.2 V        |  |
| Rated DC voltage range       | 1164.8~1497.6 V |  |
| Rated DC current             | 140 A           |  |
| General Data                 |                 |  |

| DOD                         | 95%                             |
|-----------------------------|---------------------------------|
| Noise                       | ≤75dB                           |
| Protection degree           | IP 55 (Battery room)            |
| Cooling method              | Liquid cooling/ heating         |
| Fire suppression system     | Aerosol                         |
| Operating temperature range | -19 ~ 55° C ( > 45° C derating) |
| Relative humidity           | 5% ~ 95% RH                     |
| Max.working altitude        | 2000 m                          |
| Display                     | Web/ LED                        |
| COM interfaces              | RS485/ Ethernet                 |
| Dimensions (L*W*H)          | 1330*1370*2270 mm               |
| Weight                      | 3550±50 kg                      |

## ZOE

#### Safe & Reliable

· Cabinets physically separated for safety

· SMS System for layered security

· High-quality, efficient lithium batteries

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#### Cost-efficient

· Rapid power response for virtual power plants, grid connection, and off-grid operation

· Intelligent balancing strategies maintain battery consistency

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#### **Flexible Deployment**

· Modular design for easy expansion

· Enables centralized deployment, decentralized deployment, and integration with solar storage charging

#### Smart Management

· Cloud-edge-end collaboration for 24/7 monitoring, ensuring safe and stable equipment operation

· Cloud-based big data and intelligent algorithms for flexible system strategy adjustment

## **Energy Storage Cabinet**



#### **ALL-IN-ONE ESS Cabinet**

Z BOX-I

#### LOW COSTS

Plug and play design
Highly integrated for easier transport and installation

#### FLEXIBLE

· 6 models in single cabinet

· Modular design for easy system expansion

#### SAFE & RELIABLE

Integrates AI pre-alarm
 Ultra safe design with complete FFS

#### EFFICIENT

Intelligent fan cooling ensures longer lifespan
 System efficiency ≥89%

## **I 156-1H** 150kW / 156kWh | 1C

2290±50 kg

2375±50 kg

Weight

| Model                        | 101-90KN-94 | 101-100KN-104                    | 101-110KN-114 | 101-120KN-125 | 101-120KN-135 | 101-150KN-156 |  |
|------------------------------|-------------|----------------------------------|---------------|---------------|---------------|---------------|--|
| Battery data                 |             |                                  |               |               |               | l             |  |
| Cell type                    | LFP         |                                  |               |               |               |               |  |
| Rated capacity               |             | 102 Ah                           |               |               |               |               |  |
| Serial-parallel type         | 2P144S      | 2P160S                           | 2P176S        | 2P192S        | 2P208S        | 2P240S        |  |
| Rated capacity per pack      |             |                                  | 10.44         | 4 kWh         |               | 1             |  |
| Pack number                  | 9           | 10                               | 11            | 12            | 13            | 15            |  |
| System rated energy capacity | 93.996 kWh  | 104.44 kWh                       | 114.884 kWh   | 125.328 kWh   | 135.772 kWh   | 156.66 kWh    |  |
| Rated DC voltage             | 460 V       | 512 V                            | 563 V         | 614 V         | 665 V         | 768 V         |  |
| Rated DC voltage range       | 403~518 V   | 448~576 V                        | 492~633 V     | 537~691 V     | 582~748 V     | 672~864 V     |  |
| AC Data                      |             |                                  |               |               |               |               |  |
| Rated AC power               | 90 kW       | 100 kW                           | 110 kW        | 120 kW        | 120 kW        | 150 kW        |  |
| Rated AC voltage             |             | 400 Vac                          |               |               |               |               |  |
| Rated frequency              |             | 50/60 Hz                         |               |               |               |               |  |
| Rated AC current             | 129 A       | 144 A                            | 158 A         | 173 A         | 173 A         | 216 A         |  |
| AC wiring type               |             | 3W/N+PE                          |               |               |               |               |  |
| Power factor                 |             | -0.8 ~ 0.8                       |               |               |               |               |  |
| General Data                 |             |                                  |               |               |               |               |  |
| DOD                          |             | 95%                              |               |               |               |               |  |
| Noise                        |             | ≤75dB                            |               |               |               |               |  |
| Protection degree            |             | IP 54                            |               |               |               |               |  |
| Cooling method               |             | Intelligent fan cooling          |               |               |               |               |  |
| Fire suppression system      |             | Novec 1230 + Aerosol             |               |               |               |               |  |
| Operating temperature range  |             | -30 ~ 60 ° C ( > 45° C derating) |               |               |               |               |  |
| Relative humidity            |             | 0% ~ 95% RH (non-condensing)     |               |               |               |               |  |
| Max.working altitude         |             |                                  | 200           | )0 m          |               |               |  |
| Display                      |             | LED + Touch Screen (Optional)    |               |               |               |               |  |
| COM interfaces               |             | WiFi + LAN+4G                    |               |               |               |               |  |
| Dimensions (L*W*H)           |             | 1500*1600*2200 mm                |               |               |               |               |  |

2460±50 kg

2545±50 kg

2630±50 kg

2800±50 kg

ZOE

**Energy Storage Container** 

## **Z BOX-P** ALL-IN-ONE ESS Container

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#### 1C Fast Charge and Discharge Capability

P 1300-1H offers 1C fast charging and discharging, ideal for frequency regulation and peak shaving.

#### 400V Low-Voltage Grid Connection

Adopts 400V low-voltage grid connection, improving compatibility and reducing construction and operation costs, ideal for commercial and industrial use.

#### **ALL-IN-ONE** Design

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ALL-IN-ONE design, fully modular from concept to deployment, saving land and OPEX.

ZOE

#### **Intelligent Management**

Enables smart operation with real-time monitoring and predictive analytics to enhance safety, extend lifespan, and maximize efficiency and value.

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## P 1300-1H

P1313L1H-A-EU 1.26MW/ 1.313MWh | 1C

| Battery Data                 |             |
|------------------------------|-------------|
| Cell type                    | LFP         |
| Rated capacity               | 285 Ah      |
| Serial-parallel type         | 6P240S      |
| Rated capacity per pack      | 43.776 kWh  |
| Pack number                  | 6*5         |
| System rated energy capacity | 1313.28 kWh |
| Rated DC voltage             | 768 V       |
| Rated DC voltage range       | 672~864 V   |
| Rated DC current             | 1710 A      |

#### AC Data

| Rated AC power   | 1260 kW   |
|------------------|-----------|
| Rated AC voltage | 400 Vac   |
| Rated frequency  | 50/60 Hz  |
| Rated AC current | 1818 A    |
| Max. AC current  | 2004 A    |
| AC wiring type   | 3W/ N+PE  |
| Power factor     | -0.85 ~ 1 |

| General Data                |                                |
|-----------------------------|--------------------------------|
| DOD                         | 90%                            |
| Noise                       | ≤80dB                          |
| Protection degree           | IP 54                          |
| Cooling method              | Liquid cooling/ heating        |
| Fire suppression system     | Aerosol                        |
| Operating temperature range | -30 ~ 55 °C ( > 45°C derating) |
| Relative humidity           | 5% ~ 95% RH                    |
| Max.working altitude        | 2000 m                         |
| Display                     | Web/ LED/ LCD                  |
| COM interfaces              | RS485/ Ethernet                |
| Dimensions (L*W*H)          | 6058*2438*2591 mm              |
| Weight                      | 18±0.5 T                       |

## **Energy Storage Container**

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## Z BOX-P Battery Container

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## **P 3400-2H** P3440L2H-B 3440kWh10.5C

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| Battery Data                 |                                 |
|------------------------------|---------------------------------|
| Cell type                    | LFP                             |
| Rated capacity               | 280 Ah                          |
| Serial-parallel type         | 10P384S                         |
| Rated capacity per pack      | 43.008 kWh                      |
| Pack number                  | 10*8                            |
| System rated energy capacity | 3440.64 kWh                     |
| Rated DC voltage             | 1228.8 V                        |
| Rated DC voltage range       | 1075.2~1382.4 V                 |
| Charge-discharge rate        | 1C(P3440L1H-B)/0.5C(P3440L2H-B) |
|                              |                                 |

| General Data                |                                |
|-----------------------------|--------------------------------|
| DOD                         | 95%                            |
| Noise                       | ≤80dB                          |
| Protection degree           | IP 55                          |
| Cooling method              | Liquid cooling/ heating        |
| Fire suppression system     | Aerosol                        |
| Operating temperature range | -30 ~ 50 °C ( > 45°C derating) |
| Relative humidity           | 0% ~ 95% RH (non-condensing)   |
| Max.working altitude        | 3000 m                         |
| Display                     | Web                            |
| COM interfaces              | Modbus TCP/IP                  |
| Dimensions (L*W*H)          | 6058*2438*2896 mm              |
| Weight                      | 33.5±0.5 T                     |

## **P 3700-1H** P3794L1H-B

### 3794kWh | 1C

| Battery Data                 |                                 |
|------------------------------|---------------------------------|
| Cell type                    | LFP                             |
| Rated capacity               | 285 Ah                          |
| Serial-parallel type         | 10P416S                         |
| Rated capacity per pack      | 94.848 kWh                      |
| Pack number                  | 10*4                            |
| System rated energy capacity | 3793.92 kWh                     |
| Rated DC voltage             | 1331.2 V                        |
| Rated DC voltage range       | 1164.8~1497.6 V                 |
| Charge-discharge rate        | 1C(P3440L1H-B)/0.5C(P3440L2H-B) |
|                              |                                 |

| General Data                |                                |
|-----------------------------|--------------------------------|
| DOD                         | 95%                            |
| Noise                       | ≤80dB                          |
| Protection degree           | IP 55                          |
| Cooling method              | Liquid cooling/ heating        |
| Fire suppression system     | Aerosol                        |
| Operating temperature range | -30 ~ 50 °C ( > 45°C derating) |
| Relative humidity           | 0% ~ 95% RH (non-condensing)   |
| Max.working altitude        | 3000 m                         |
| Display                     | Web                            |
| COM interfaces              | Modbus TCP/IP                  |
| Dimensions (L*W*H)          | 6058*2438*2896 mm              |
| Weight                      | 35±0.5T                        |

## **Energy Storage Container**

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Li-ion Energy storage

CAUTION 9' 6.5" HIGH 8' 6" WIDE CONTAINER

## Z BOX-P Battery Container

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## P 5000-2H

P5015L2H-A-EU 5015kWh | 0.5C

| Battery Data                 |                 |
|------------------------------|-----------------|
| Cell type                    | LFP             |
| Rated capacity               | 314 Ah          |
| Serial-parallel type         | 12P416S         |
| Rated capacity per pack      | 104.499 kWh     |
| Pack number                  | 12*4            |
| System rated energy capacity | 5015.96 kWh     |
| Rated DC voltage             | 1331.2 V        |
| Rated DC voltage range       | 1164.8~1497.6 V |

#### Safety

· Intelligent safety management

#### Lower cost

· Higher Energy Density

· Transportation of complete system

#### Efficient O&M

· Intelligent Design for back-to-back and end-to-end Layout

| General Data                |                                |
|-----------------------------|--------------------------------|
| DOD                         | 95%                            |
| Noise                       | ≤80dB                          |
| Protection degree           | IP 55                          |
| Cooling method              | Liquid cooling/ heating        |
| Fire suppression system     | NOVEC 1230 /Aerosol (optional) |
| Operating temperature range | -30 ~ 50 °C ( > 45°C derating) |
| Relative humidity           | 0% ~ 95% RH                    |
| Max.working altitude        | 3000 m                         |
| Display                     | Web                            |
| COM interfaces              | RS485/CAN/Ethernet             |
| Dimensions (L*W*H)          | 6058*2438*2896 mm              |
| Weight                      | 41 T                           |

## **Application Scenario**

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### **Generation/Grid Side Energy Storage**

In the global shift towards sustainable energy, generation/grid side storage solutions are crucial. By digitally managing energy generation, storage, and distribution, we enhance power system stability, reliability, and efficiency. Our focus is on promoting clean energy on a large scale, meeting the demands for environmental sustainability. **Scenarios:** Renewable energy, large thermal power stations, hydropower stations, shared energy storage stations **Demands:** Peak shaving, frequency regulation and smoothing renewable energy fluctuations

### **Commercial & Industrial Energy Storage**

Offering tailored energy storage solutions for commercial and industrial demands, our modular design flexibly fits diverse settings, enhancing investment return. Focused on peak and valley power management, these solutions facilitate peak shifting and load leveling, reducing grid stress and electricity costs. Ideal for sectors needing reliable power, like data centers, medical facilities, and production lines.

Scenarios: Full electrification, industrial parks, ports, office buildings, data centers, PV-storage-charging, etc
 Demands: Power rationing, high peak rates, demand charges, capacity shortages, costly transformer upgrades, spatial constraints, ESG compliance

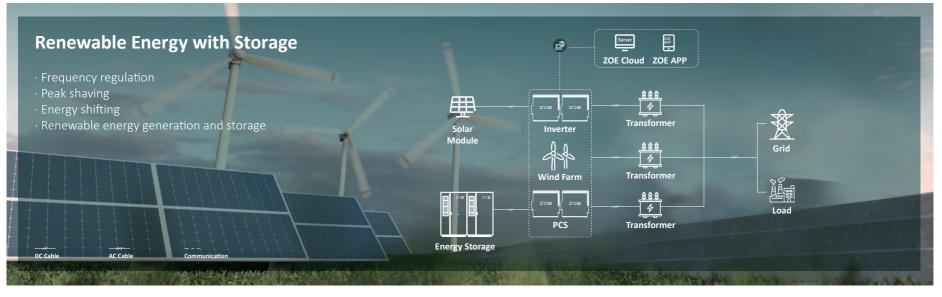


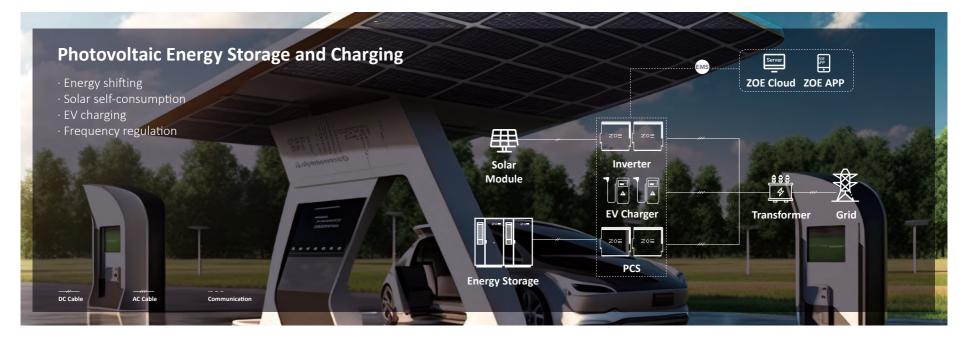




## **Solutions**









## **Benchmark Cases - Utility**

**Solution:** • 27MW / 27MWh • Z BOX-H 372kWh **Country:** China

### **Application:**

LPA:

Renewable integration
Energy shifting
Curtailment avoidance

- 14-

## **Benchmark Cases - Utility**

#1-9 儲龍电池舱 乙〇三

Solution: · 30MW / 60MWh · Z BOX-H 372kWh **Country:** 

### China

#1-8 储能电池舱

ZOE

### **Application:**

11-6 3個簡優活動

Renewable integration
 Energy shifting
 Green hydrogen production

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## **Benchmark Cases - Utility**

### Solution:

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· 15MW / 15MWh · Z BOX-P 3440kWh

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### **Country:**

China

### **Application:**

· Renewable integration

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- · Energy shifting
- · Curtailment avoidance

**Solution:** • 11MW / 22MWh • Z BOX-H 372kWh

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**Country:** China

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Application: · Peak shaving · Solar self-consumption · Backup power

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**卓险储**能

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**求形化们非成准有限公司** 

**ZO**三 単短端面

有电危险

卓阳建筑新被游列接公司

ZO 三 桌段储能

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有电总验

中国福祉新的政府限公司

Solution: · 0.858MW / 2.604MWh · Z BOX-C 186kWh

ZOE

享阳储能 # 1-2 储能单元

ZOE

**Country:** China

**Application:** · Peak-Valley arbitrage · Demand response

20三章照储器 # 2-2

2024年8月 # 2.3 储能单元

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### Solution: · 630kW / 1290kWh

· Z BOX-C 215kWh

**Country:** Sweden Application: · Solar self-consumption · Frequency regulation



### Solution:

· 2MW / 2.2MWh · Z BOX-P

ZOE

**Country:** 

YLOAD 24 310 KG 53 598 18 1 CAP 23 8 CU 7 840 CUF

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Sweden

Application: • Frequency regulation

ZOE

MAX GROSS 67 200 LB

PAYLOAD 24 310 KG PAYLOAD 53 598 LB CU CAP 840 CUFT

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6 170 KG 13 602 LB

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## Benchmark Cases-PV + Storage + Charging

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**Solution:** • 105kW / 215kWh • Z BOX-C 215kWh

136 + 300 9464

AGT

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**Country:** Hungary Application: • EV charging • Transformer capacity expansion tea +35 1 300 9464

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## **Benchmark Cases-PV + Storage + Charging**

**Solution:** • 93kW / 186kWh • Z BOX-C 186kWh

**Country:** China Application: • EV charging • Solar self-consumption • Transformer capacity expansion

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### **Benchmark Cases - Micro-Grid**

### **Solution:** • Z BOX-C 186kWh • Z BOX-H 372kWh

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### **Country:** China

### Application:

Solar self-consumption
 Low-temperature performance testing





































ZOE





1. 报复单元

ZOE









#### **BUSINESS COOPERATION**

#### HEADQUARTERS

Shanghai ZOE Energy Storage Technology Co., Ltd.

🗠 +86 21 5296 5907

info@zoeess.com

💿 Building 2, No. 1777 Hualong Road, Qingpu District, Shanghai, P.R. China

#### EUROPE HEAD OFFICE

ZOE ESS B.V.

+86 138 5276 1011; +48 572 824 111

infozoe@zoeess.com

Ø Kennedyplein 200, 5611 ZT Eindhoven, The Netherlands

#### REPRESENTATIVE IN POLAND

#### **RESPRESENTATIVE IN NETHERLANDS**

#### **CUSTOMER SERVICE**

☑ service@zoeess.com



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WEBSITE

#### **ENERGY FOR LIFE**

#### **R&D CENTER**

Changzhou ZOE Energy Storage Technology Co., Ltd.

- 🗠 +86 519 8801 8016
- info@zoeess.com
- B2, No. 68 Kunlun Road, Xinbei District, Changzhou, Jiangsu, P.R. China

#### UK OFFICE

#### ZOE ESS

- 🗠 +44 7887 602 878
- infozoe@zoeess.com
- 167-169 Great Portland Street, London, W1W 5PF, United Kingdom

#### **RESPRESENTATIVE IN SWEDEN**

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#### **RESPRESENTATIVE IN SLOVAKIA**

#### MANUFACTURING PLANTS

Fuzhou ZOE Energy Storage Technology Co., Ltd.

- 🗠 +86 794 5296 5907
- ☑ info@zoeess.com
- ⑦ Zone 1, Intelligent Manufacturing Industrial Park, Nanfeng, Fuzhou, Jiangxi, P.R. China

#### HONG KONG OFFICE

 ZOE ESS (HONG KONG) Co., Ltd.
 info@zoeess.com
 Office No.12, Floor 19, Ho King Commercial Centre, No.2-16 Fa Yuen Street, Mong Kok, Kowloon, Hong Kong.

#### REPRESENTATIVE IN SPAIN

| Zoeess Energy Storage SL  |
|---|
| +34 916 708 625/ +34 681 11 83 56                                   |
| ☑ info.spain@zoeess.com   |
| ◎ Calle De Santiago Ramon Y Cajal, 44, 28939, Arroyomolinos, Madrid |