

ZO三
卓阳储能

上海卓阳储能科技有限公司

Shanghai ZOE Energy Storage Technology Co., Ltd.

成为改变能源结构的全球化企业

Dedicated to Being a Global Force in Transforming Energy Structures





ZOE signifies “life” in Greek
在希腊语意为：生命

宇宙中每个生命体都是一种能量的储存方式, 当能量归于有序时便有了生命的诞生, 也是奇迹的诞生
我们见证生命与宇宙的每一次碰撞, 微弱却又无比震撼, 这是一种能量与另一种能量的耦合状态
ZOE 源于对生命的关注

Every life form in the universe represents a form of energy storage. The birth of life, and indeed miracles, emerge when energy comes into order. We witness each collision between life and the universe; faint yet overwhelmingly impactful, it symbolizes a coupling state of one form of energy with another.

ENERGY FOR LIFE
能源因生命而伟大



愿景

成为改变能源结构的全球化企业

Vision

Dedicated to Being a Global Force in Transforming Energy Structures

使命

做好电网与用电场景的纽带，使用电更有序，让负荷更均衡

Mission

Bridging Grids and Scenarios for Organized Electricity Use and Balanced Loads

价值观

创新、正直、服务、协同

Values

Innovation, Integrity, Service, Collaboration





卓阳储能 ZOE Energy Storage

卓阳储能是一家集储能电站投资、运营以及储能系统研发、生产、销售于一体的科技服务企业。公司总部位于上海，在江苏设立研发中心，与高校和专业机构成立联合实验室，推进储能技术的开发与应用，在江西、四川等地拥有14GWh 储能智能工厂，在上海设立卓阳数字中心。凭借卓越的研发能力和创新的运营模式，为各种应用场景及行业提供标准化、定制化的储能解决方案，做好电网与各类用电场景之间的纽带，使用电更有序，让负荷更均衡。

卓阳储能是卓阳集团子公司。卓阳集团成立 2013 年，是一家以新能源电站开发、投资、运营为主的高新技术企业。近年来，在国家“双碳”目标的引领下，已投资建成大型光伏电站 23 座，总装机 3.53GW，在建风力、光伏电站 1.23GW，累计总投资 260 亿元，年复合增长率 183%。

ZOE Energy Storage, a pioneer in integrating investment, operation of energy storage stations, and the R&D, manufacturing, and sales of energy storage systems, has its global headquarters in Shanghai. With its R&D center in Jiangsu and joint laboratories established with top universities and international institutions, ZOE advances the development and application of energy storage technology. The company operates 14GWh intelligent energy storage factories in Jiangxi and Sichuan and has established the ZOE Digital Center in Shanghai. Leveraging outstanding R&D capabilities and innovative approaches, ZOE delivers both standardized and tailored energy storage solutions, bridging grids and scenarios for organized electricity use and balanced loads.

As a subsidiary of the ZOE Energy Group, ZOE Energy Storage contributes to the group's overarching mission. Founded in 2013, ZOE Energy Group is a high-tech enterprise dedicated to the development, investment, and management of new energy projects. Targeting carbon neutrality, the Group has developed 23 utility-scale solar projects with a combined capacity of 3.53GW and is progressing with wind, photovoltaic projects of 1.23GW. With a cumulative investment exceeding \$3.6 billion, the Group has realized an annual compound growth rate of 183%, underscoring its commitment to sustainable energy development.

成为改变能源结构的全球化企业

Dedicated to Being a Global Force in Transforming Energy Structures



核心业务 Core Business

- 储能电站投资、运维
- 储能产品研发、生产、销售

ENERGY STORAGE PLANTS
Investment and operation

ENERGY STORAGE SYSTEM
R&D, Manufacturing, Sales



我们的服务 Our Service

- 服务范围：欧洲，中国及线上服务
- 技术支持：运维分析，售后服务

Service Area
Europe, China, Online Services

Technical Support
O&M Analysis, After-Sales Service



研发创新 R&D Innovation

与高校和专业机构成立联合实验室，推进储能技术的开发与应用

Establish joint laboratories with universities and research institutions to advance the development and application of energy storage technology



生产制造 Manufacturing

14GWh储能智能工厂

14GWh Intelligent Energy Storage Factory



数字能源 Digital Energy

· 围绕工商业储能需求，构建“Z DIGITAL”数字能源生态

· 实现资源配置优化、能量管理及交易、节能减碳

· Developing “Z DIGITAL”, a digital energy ecosystem for commercial and industrial energy storage

· Achieving resource optimization, energy management&trading, and carbon reduction

发展历程 Milestone

启航 Inception >

2013

卓阳能源集团成立
ZOE Energy Group established.

2014

建成投产光伏组件厂，
年产能达 500MW

Established operational photovoltaic module factory, with annual capacity of 500MW.

开拓 Expansion >

2015

启动全球化战略，
投资海外市场

Initiated global strategy, invested in overseas markets.

2016

创立卓阳“未来家”子品牌，
率先进入户用分布式市场，
投资户用电站数 2000+，
获得户用光伏市场金奖

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

澳洲市场组件
出货量排名前五

Ranked top five in Chinese photovoltaic module shipments to Australia.

2018

进军新能源汽车行业，
投资新能源汽车后市场服务平台

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

腾飞 Thriving >

2019

获光伏竞价地面电站 200MW 项目，
属南方电网和贵州省最大单体项目

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

2020

深耕国内市场，
取得 350MW 全国竞价光伏项目，
在贵州省民营企业排名第一

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

2021

获批 7 个光伏 2 个风电项目
总装机 1.92GW
全国名列前茅

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

立序·储能 New Chapter >

2022

· 上海卓阳储能科技有限公司成立
· 设立研发中心，成功研发液冷储能系统
· 设立卓阳数字中心
· 筹建江西储能智能工厂

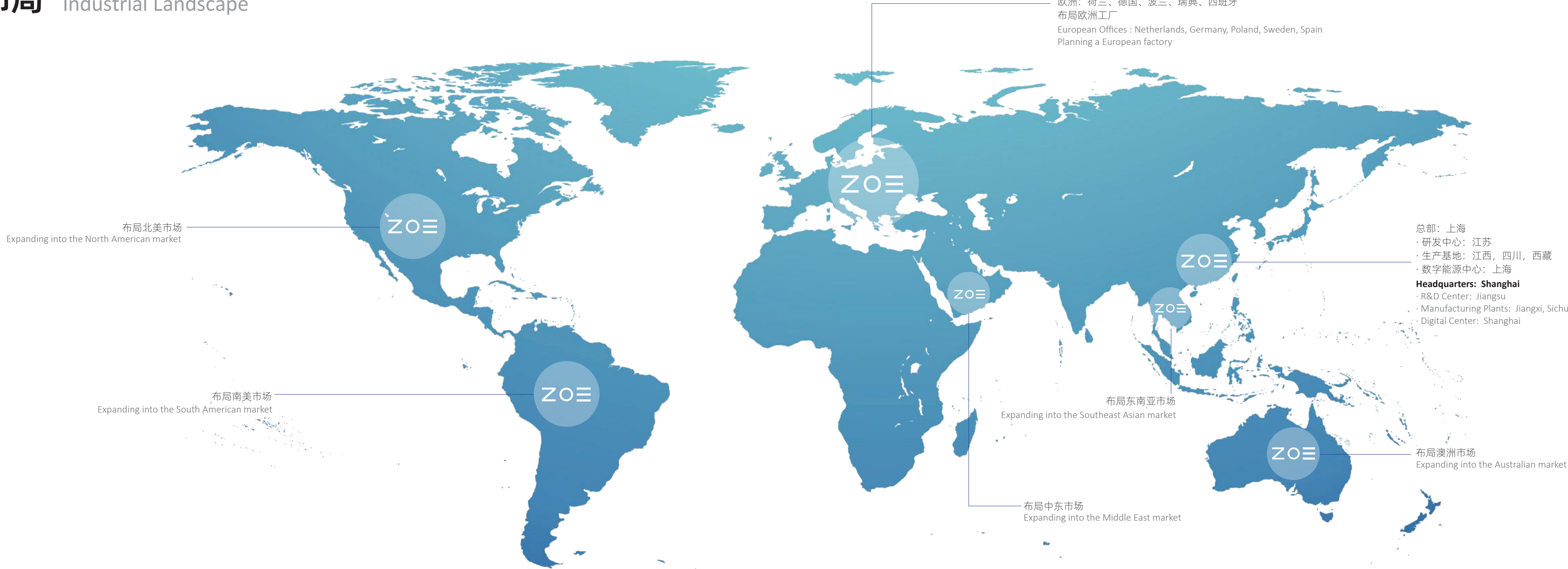
· Shanghai ZOE Energy Storage Technology Co., Ltd. established
· Established the R&D center, successfully developed liquid cooling battery energy storage system
· Established the ZOE Digital Energy Center
· Planned Jiangxi energy storage factory

2023

· 完善全球市场布局
· 发布 Z BOX 液冷储能系统，
并获得鉴衡 CGC 及欧盟 CE 认证
· 江西 2GWh 储能智能工厂建成投产，
产品批量交付验收
· 筹建四川 10GWh 储能智能工厂、
西藏 2GWh 储能智能工厂

· 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 in Jiangxi and planned 12GWh factories in Sichuan and other areas

产业布局 Industrial Landscape



研发创新 R&D Innovation



卓阳研发中心内设电力电子实验室、光储充实验室、系统集成实验室、PCS实验室，被德国莱茵 TÜV 和北德 TÜV NORD 授予目击实验室资质，并与中国科学院、浙江大学、成都电子科技大学达成战略合作，共同研究新型储能技术的开发与应用。

ZOE's R&D Center, equipped with Power Electronics, Photovoltaic-Storage-Charging Integration, Energy Storage System Integration, and PCS Laboratories, has earned Witness Laboratory accreditation from both TÜV Rheinland and TÜV NORD. Through strategic partnerships with the Chinese Academy of Sciences, Zhejiang University, and the University of Electronic Science and Technology of Chengdu, the center advances the development and application of cutting-edge energy storage technologies.



德国莱茵 TÜV
TMP 目击实验室

TMP Witness Laboratory qualification
by TÜV Rheinland of Germany



北德 TÜV NORD
目击实验室

Witness Laboratory qualification
by TÜV NORD

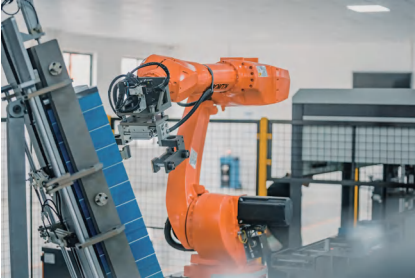
核心专利

79项

CORE PATENTS



14GWh 储能智能工厂
Intelligent Energy Storage Factory



公司在江西、四川、西藏建设 14GWh 储能智能制造工厂，拥有自动化 PACK、PCS 产线及系统集成调试产线。产线配备先进的工艺设备及完善的测试手段，通过导入 MES 智能化系统，采集生产、物料、工艺、品质等相关信息，实现生产过程高度自动化、智能化、柔性化，为生产安全和产品品质保驾护航。

The company operates advanced energy storage factories with a total capacity of 14GWh in Jiangxi and Sichuan, 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.

数字能源生态

Z Digital

围绕工商业储能的场景化需求，卓阳储能开发了 Z Digital 数字能源生态。通过数字化、智能化手段，形成多种能源的规模聚合效应，提供资源配置优化、能量管理及交易、节能减碳等数字能源产品服务。

- 采用分布式、可插拔的组件化设计思路，灵活支持多种能源种类的大数据管理、算法建模和部署，能源管理和调度
- 通过对外发布各种场景化应用功能，支持不同业务系统的调用，实现多能源多场景业务的系统组合
- 面向多类能源聚合场景的应用集成，涵盖多场景的智能化算法预测和策略功能，形成“AI+ 能源”的智能化解决方案
- 面向多源异构数据的集成与消费，通过 IoT+ 大数据 +AI 技术，提供多种能源场景的数据价值挖掘服务
- 面向大规模、多种类的边缘侧物联网设备接入，提供设备标准化连接服务与数据生命周期管理，形成云边协同的能源物联网服务

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.

- Adopts a distributed, pluggable modular design, supporting big data management, algorithmic modeling & deployment, and energy management & scheduling across multiple energy forms
- Releases scenario-based applications to facilitate diverse business system integrations, enabling multi-energy and multi-scenario system configurations
- Offers an "AI+Energy" solution that integrates smart predictive algorithms and strategic functionalities to aggregate diverse energy scenarios
- Integrates and utilizes multi-source heterogeneous data through IoT, Big Data, and AI technologies, offering data value extraction services for various energy scenarios
- Facilitates large-scale, diverse edge IoT device access, offering standardized connection services and data lifecycle management to create a synergized cloud-edge energy IoT service



- Z-EMS**
能量管理系统
Energy Management System
- Z-IoT Internet of Things
- Z-AI Artificial Intelligence
- 能源监控 Energy Monitoring
- 智能运维 Smart O&M
- 智能策略 Intelligent Strategy
- 电池诊断 Battery Diagnostics
- 资产收益 Asset Profitability



- Z-VPP**
虚拟电厂
Virtual Power Plant
- 能源监控 Energy Monitoring
- 资源聚合 Resource Aggregation
- 资源分解 Resource Allocation
- 指令分解 Command Decomposition
- 交易申报 Transaction Declaration
- 交易结算 Transaction Settlement



- Z-Zone**
零碳园区
Zero Carbon Zone System
- 电力能源监控 Power Energy Monitoring
- 电气安全预警 Electrical Safety Alerts
- 电能质量治理 Power Quality Management
- 能耗分析 Energy Consumption Analysis
- 智能运维 Smart Operations and Maintenance
- 碳管理及服务 Carbon Management and Services



- Z-AMS**
资产管理系统
Asset Management System
- 资产审批 Asset Approval
- 资产测算 Asset Measurement
- 资产评估 Asset Evaluation
- 资产安全 Asset Safety



- Z-SMS**
安心系统
Safety Management System
- 电芯级 Cell-Level
- 模组级 Module-Level
- 簇级 Cluster-Level
- 电站级 Station-Level

卓阳储能产品系列 ZOE Energy Storage Product Series



资质认证 Qualification Certification



产品通过国际安全质量与准入认证，其安全性、兼容性和性能均达到了国际标准的严苛要求。

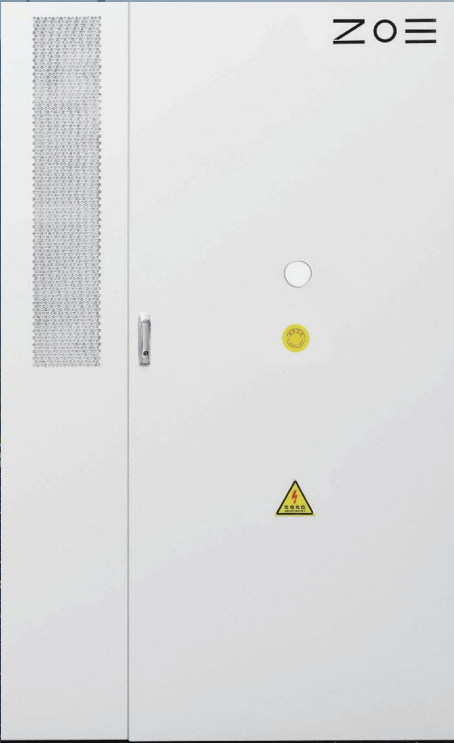
- 通过欧洲 CE 认证，涵盖了 LVD（安规指令）和 EMC（电磁兼容指令），确保产品在电气安全和电磁干扰方面达到了欧洲法规的严格标准。
- 通过欧盟通用并网认证 EN 50549-1，以及瑞典、波兰、西班牙和意大利等欧洲多国的并网认证，可以无缝接入当地电网。
- 通过 CGC 和 CQC 等多项认证，确保储能产品符合生产过程质量控制及认证产品一致性要求。

Our products are internationally certified, ensuring compliance with global safety, quality, and performance standards

- CE certified, adhering to Europe's LVD and EMC standards for electrical safety and electromagnetic interference
- Certified for EU grid connection under EN 50549-1, recognized in Sweden, Poland, Spain, and Italy for seamless local grid integration
- Achieving certifications like CGC and CQC, meeting rigorous quality control and product consistency standards throughout production

工商业储能系统

Commercial and Industrial Products



Built for
HILL
应山地而生



Z BOX-H 液冷储能系统

Battery Energy Storage System (Liquid Cooling)

安全稳定

- 柜体分区，实现物理隔离
- 搭载 SMS 安心系统，实现多重安全防护
- 采用安全高效的高品质锂电池组
- 全生命周期管理

经济高效

- 快速功率响应，支持虚拟电厂、并网、离网等多种模式
- 智能均衡策略，保证电池全生命周期的一致性
- 能量调控策略动态切换

灵活分布

- 结构化设计，易于扩展
- 实现集中部署、分散部署及光储充结合

智能管理

- 云端协同，24H 性能监测，确保设备安全稳定运行
- 云端大数据及智能算法，实现系统策略灵活调整

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

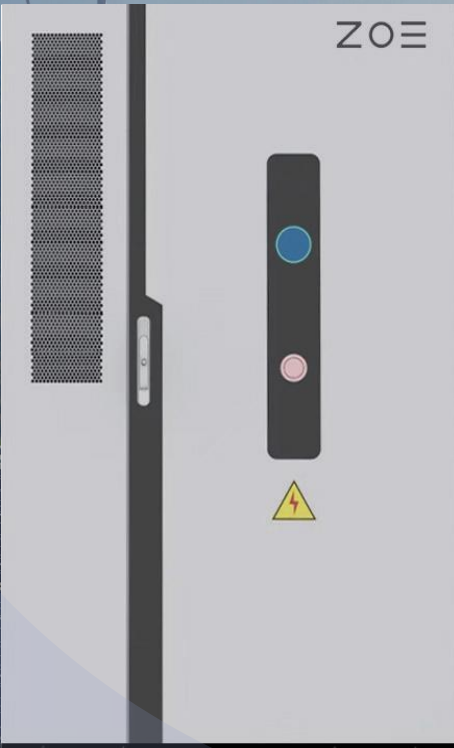
Smart Management

- Cloud-edge-end collaboration for 24/7 monitoring, ensuring safe and stable equipment operation
- Cloud-based big data and intelligent algorithms for flexible system strategy adjustment

型号 Model	ZOE-C372L-H-A
常规参数 General data	
最大效率 Max.efficiency	≥93.2%
充放电倍率 Charge-discharge ratio	≤0.5C
放电深度 DOD	95% DOD
防护等级 Protection degree	IP55
冷却方式 Cooling concept	液冷 Liquid cooling
加热方式 Heating concept	液热 Liquid heating
消防系统 Fire suppression system	气溶胶 + 全氟己酮 Aerosol + Perfluoro
工作温度 Operating temperature range	-25~55 °C
相对湿度 Relative humidity	5~95% RH
噪音 Noise	≤67 dB
最高运行海拔 Max.working altitude	4000 m
循环次数 Cycle life	≥8000@25°C, 0.5C, 70%SOH
设计寿命 Design life	≥15 年 year
通讯接口 COM interfaces	RS485/ CAN/ Ethernet
尺寸 Dimensions(W*D*H)	1370*1330*2270 mm
重量 Weight	3550 kg
电池参数 Battery data	
电池类型 Cell type	LFP
额定容量 Rated capacity	280 Ah
串并联形式 Serial-parallel type	1P416S
单 Pack 额定能量 Rated capacity per pack	46.592 kWh
Pack 串数 Pack Number	8
系统额定能量 System rated energy capacity	372.736 kWh
额定电压 DC rated voltage	1331.2 Vdc
工作电压范围 DC voltage range	1164.8~1497.6 Vdc
额定电流 Rated DC current	140 A
最大电流 Max. DC current	160 A

工商业储能系统

Commercial and Industrial Products



Built for
HILL
应山地而生



Z BOX-H 液冷储能系统

Battery Energy Storage System (Liquid Cooling)

- 安全稳定**
 - 柜体分区，实现物理隔离
 - 搭载 SMS 安心系统，实现多重安全防护
 - 采用安全高效的高品质锂电池组
 - 全生命周期管理
- 经济高效**
 - 快速功率响应，支持虚拟电厂、并网、离网等多种模式
 - 智能均衡策略，保证电池全生命周期的一致性
 - 能量调控策略动态切换
- 灵活分布**
 - 结构化设计，易于扩展
 - 实现集中部署、分散部署及光储充结合
- 智能管理**
 - 云端协同，24H 性能监测，确保设备安全稳定运行
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 - Cloud-edge-end collaboration for 24/7 monitoring, ensuring safe and stable equipment operation
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型号 Model	C372L-D-EU
常规参数 General data	
放电深度 DOD	95%
防护等级 Protection degree	IP55 （Battery room ）
冷却方式 Cooling concept	液冷 Liquid cooling
加热方式 Heating concept	液热 Liquid heating
消防系统 Fire suppression system	气溶胶 Aerosol
工作温度 Operating temperature range	-20~55 ℃
相对湿度 Relative humidity	5%~95% RH
最高运行海拔 Max.working altitude	2000 m
显示方式 Display	APP/ Web/ LED
通讯接口 COM interfaces	RS485/ Ethernet
尺寸 Dimensions(W*D*H)	1370*1330*2270 mm
重量 Weight	3550±50 kg
电池参数 Battery data	
电池类型 Cell type	LFP
额定容量 Rated capacity	280 Ah
串并联形式 Serial-parallel type	1P416S
单 Pack 额定能量 Rated capacity per pack	46.592 kWh
Pack 数量 Pack number	8
系统额定能量 System rated energy capacity	372.736 kWh
额定电压 DC rated voltage	1331.2 V
工作电压范围 DC voltage range	1164.8~1497.6 V
额定电流 Rated DC current	140 A
最大电流 Max. DC current	160 A

工商业储能系统

Commercial and Industrial Products



Built for
CITY
应城市而生

CN



Z BOX-C 液冷储能系统

Battery Energy Storage System (Liquid Cooling)

安全稳定

- 柜体分区，实现物理隔离
- 搭载 SMS 安心系统，实现多重安全防护
- 采用安全高效的高品质锂电池组
- 全生命周期管理

经济高效

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Cost-efficient

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

型号 Model	ZOΞ-C186L-L-A
电池参数 Battery data	
电池类型 Cell type	LFP
额定容量 Rated capacity	280 Ah
串并联形式 Serial-parallel type	1P208S
系统额定能量 System rated energy capacity	186.368 kWh
额定电压 DC rated voltage	665.6 Vdc
工作电压范围 DC voltage range	600 ~ 748.8 Vdc
额定电流 Rated DC current	140A
最大电流 Max. DC current	160A
交流参数 AC data	
额定交流功率 Rated AC power	93.1kW
最大交流功率 Maximum AC power	102.4kW(长期)
额定电网电压 Rated grid voltage	400Vac
额定电网频率 Rated grid frequency	50/60±2.5Hz
额定输出电流 Rated output current	135A
交流接线类型 AC access mode	三相四线 3W/N+PE
电流总谐波畸变率 Total harmonic distortion rate of current	≤3% (满载)
功率因数 Power factor	-0.99~+0.99
常规参数 General data	
最大效率 Max.efficiency	≥89.2%
放电深度 DOD	95% DOD
防护等级 Protection Degree	IP55
冷却方式 Cooling concept/ 加热方式 Heating concept	液冷 Liquid cooling/ 液热 Liquid heating
消防系统 Fire suppression system	气溶胶 + 全氟己酮 Aerosol + Perfluoro
工作温度 Operating temperature range	-25~55℃
最高运行海拔 Max.working altitude	4000m （大于 2000m 降额）
循环次数 Cycle life	≥8000@25℃， 0.5C， 70%SOH
设计寿命 Design life	≥15 年 year
通讯接口 COM interfaces	RS485/ CAN/ Ethernet/ 4G
尺寸 Dimensions(W*D*H)	965*1328*1850mm
重量 Weight	1900kg

工商业储能系统

Commercial and Industrial Products



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应城市而生



Z BOX-C 液冷储能系统

Battery Energy Storage System (Liquid Cooling)

安全稳定

- 柜体分区，实现物理隔离
- 搭载 SMS 安心系统，实现多重安全防护
- 采用安全高效的高品质锂电池组
- 全生命周期管理

经济高效

- 快速功率响应，支持虚拟电厂、并网、离网等多种模式
- 智能均衡策略，保证电池全生命周期的一致性
- 能量调控策略动态切换

灵活分布

- 结构化设计，易于扩展
- 实现集中部署、分散部署及光储充结合

智能管理

- 云端协同，24H 性能监测，确保设备安全稳定运行
- 云端大数据及智能算法，实现系统策略灵活调整

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

型号 Model	C215L-A		C232L-D
电池参数 Battery data			
电池类型 Cell type	LFP		
额定容量 Rated capacity	280 Ah		
串并联形式 Serial-parallel type	1P240S	1P260S	
单 Pack 额定能量 Rated capacity per pack	43.008kWh	46.592kWh	
Pack 串数 Pack number	5		
系统额定能量 System rated energy capacity	215.04kWh	232.96kWh	
额定电压 DC rated voltage	768Vdc	832Vdc	
工作电压范围 DC voltage range	672~864Vdc	728~936Vdc	
额定电流 Rated DC current	140A		
最大电流 Max. DC current	160A		
交流参数 AC data			
额定交流功率 Rated AC power	105kW		
额定电网电压 Rated grid voltage	400Vac		
额定电网频率 Rated grid frequency	50/60Hz		
最大 AC 电流 Max. AC current	167A		
AC 接线方式 AC access mode	三相四线 3W/N+PE		
THDi	<3% (额定功率)		
功率因数 Power factor	-1~+1		
常规参数 General data			
峰值系统效率 Max.efficiency	≥90%		
放电深度 DOD	100% DOD		
防护等级 Protection Degree	IP55		
冷却方式 Cooling concept	液冷 Liquid cooling		
加热方式 Heating concept	液热 Liquid heating		
消防系统 Fire suppression system	气溶胶 + 全氟己酮 Aerosol + Perfluoro		
工作温度 Operating temperature range	-25~55℃		
最高运行海拔 Max.working altitude	4000m		
通讯接口 COM interfaces	RS485/Ethernet/4G(optional)		
尺寸 Dimensions(W*D*H)	990*1348*2230		
重量 Weight	2160kg	2280kg	

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型号 Model	C215-A-EU
常规参数 General data	
放电深度 DOD	95%
防护等级 Protection degree	IP55 （Battery room & PCS room ）
冷却 / 加热方式 Cooling/Heating concept	液冷 / 液热 Liquid cooling/ Liquid heating
消防系统 Fire suppression system	气溶胶 Aerosol
工作温度 Operating temperature range	-20~55 ℃
相对湿度 Relative humidity	5%~95% RH
最高运行海拔 Max.working altitude	2000 m
显示方式 Display	APP/ Web/ LED
通讯接口 COM interfaces	RS485/ Ethernet/ 4G (optional)
尺寸 Dimensions(W*D*H)	1399*1344*2080 mm
重量 Weight	2450±50 kg
电池参数 Battery data	
电池类型 Cell type	LFP
额定容量 Rated capacity	280 Ah
串并联形式 Serial-parallel type	1P240S
单 Pack 额定能量 Rated capacity per pack	43.008 kWh
Pack 数量 Pack number	5
系统额定能量 System rated energy capacity	215.04 kWh
额定电压 DC rated voltage	768 V
工作电压范围 DC voltage range	672~864 V
额定电流 Rated DC current	140 A
最大电流 Max. DC current	160 A
交流参数 AC data	
额定交流功率 Rated AC power	105 kW
额定电网电压 Rated grid voltage	400 Vac
额定电网频率 Rated grid frequency	50/60 Hz
最大输出电流 Max. AC current	167 A
交流接线类型 AC wiring type	3W/N+PE
功率因数 Power factor	-1~+1

工商业储能系统

Commercial And Industrial Products

-  **低成本**
- 即插即用设计
 - 高度集成，便于运输和安装

-  **灵活**
- 单柜 6 种模型
 - 模块化设计，便于系统扩展

-  **安全可靠**
- 集成 AI 预警
 - 具有完整 FFS 的超安全设计

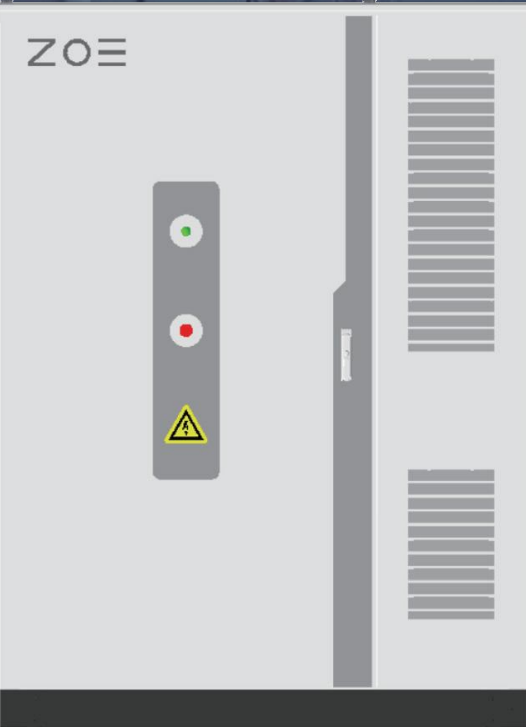
-  **智能管理**
- 智能风扇冷却，确保更长寿命
 - 系统效率≥ 89%

-  **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%



Z BOX-I 风冷储能系统

Battery Energy Storage System (Air Cooling)

Model	I01-90KN-94	I01-100KN-104	I01-110KN-114	I01-120KN-125	I01-120KN-135	I01-150KN-156
Battery						
Cell type	LFP					
Battery cell capacity (Ah)	102					
System configuration	9*(2P16S)	10*(2P16S)	11*(2P16S)	12*(2P16S)	13*(2P16S)	15*(2P16S)
Rated DC voltage (V)	460	512	563	614	665	768
DC voltage range (V)	403~518	448~576	492~633	537~691	582~748	672~864
Battery capacity (BOL) (kWh)	94	104	114	125	135	156
Max. charge/discharge rate	1C					
PCS						
Rated power (kW)	90	100	110	120	120	150
PCS configuration	2*60kW (PCS+DC/DC)	2*60kW (PCS+DC/DC)	2*60kW (PCS+DC/DC)	2*60kW (PCS+DC/DC)	2*60kW (PCS+DC/DC)	3*50kW (PCS)
Rated AC voltage (V)	400, 3L/N/PE					
AC voltage range	-20% ~ +15%					
AC frequency (HZ)	50/60					
Rated AC current (A)	129	144	158	173	173	216
Power factor	0.8cap~0.8ind					
THDi	≤3% (Full load)					
Charge/ discharge switch time (ms)	< 100					
Protection						
Overvoltage protection	YES					
Overcurrent protection	YES					
Short-circuit protection	YES					
Over-temperature protection	YES					
General Data						
Ambient temperature range (°C)	-30 ~ 60					
Relative humidity	0-95% (Non-condensing)					
Noise level (dB)	≤75					
Dimensions (W*D*H mm)	1500*1300*2200					
Weight (t)	≈2.4					
IP degree	IP54					
Cooling method	Intelligent fan cooling					
Fire fighting system	Novec 1230 + Aerosol					
Altitude (m)	≤2000					
Communication interfaces	WiFi + LAN					
Display	Touch screen					
Standard and Certification	IEC 62619, IEC 61000, IEC 62477, EN 50549, UN38.3					

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Z BOX-P 集装箱储能系统

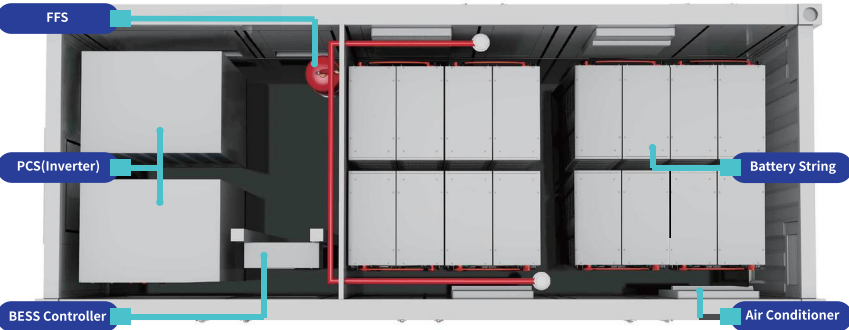
Container Energy Storage System



Features

- Low Capex
- Low Field Labor Cost
- Minimized Site Installation
- Flexible Deployment According to The Site Layout

System Model	A2H3441L-B	A1H3441L-B
System Information		
Max. Power	1725kW	3440kW
Nameplate Capacity	3440.64kWh	3440.64kWh
Compatible Inverters	PE: FP2865k SMA: SCS2630UP-XT	PE: FP3820k2 SMA: SCS3450UP
Battery Information		
Battery Chemistry	LFP	
Capacity	280Ah	
Configuration	384S10P	
Nominal Voltage	1228.8V	
Voltage Range	1075.2~1382.4V	
Working Conditions		
Degree of Protection	NEMA 3R/IP54	
Noise Emission	<80dB @ 1M	
Operating Temperature Range	-30°C ~50°C	
Relative Humidity	0~95% (No condensing)	
Max. Working Altitude	9,800ft/ 3,000m	
General Information		
Dimensions(WxHxD)	6,058x2,438x2,896mm	
Weight	36,000kg	
Cooling Method	Liquid Cooling	
Fire Suppression System	Drypipe, Ventilation, Aerosol (Optional)	
Aux. Power Supply	400VAC/3P4L,50Hz	
Max.Current of Aux. Power Supply	72A	90A
Communication Protocol	Modbus TCP/IP	
Certificate	IEC62619,UL1973,UL9540A,UN3536	



Features

- High-performance, all-in-one, containerized battery energy storage system
- 1C Charge/ Discharge, easy configuration and maintenance
- Multi-branch input to reduce battery series and parallels connection
- All-round signal collection (GPC)

Product Model	A1H1100A-C-EU
DC Data	
Battery chemistry	Lithium Iron Phosphate (LFP)
Battery string type	S138-15P9
Cell life cycle	80% Retention with 5,000 Cycles @ 1C 25°C
Cell spec	3.2V/90Ah
String configuration	2P240S
Number of strings	8
Rated energy capacity	1.1MWh
DC rated energy capacity	1,105.92kWh
Rated voltage	768V
Voltage range	672V~852V
BMS communication interface	RS485, Ethernet
BMS communication protocol	Modbus RTU, Modbus TCP
AC Data	
Rated AC power	1000kW
Maximum AC power	1100kW
Rated voltage	400V
Grid voltage range	360~440V (Configurable)
AC rate of current	2*721.7A
Output THDi	<3%
AC PF	0.1~1 leading or lagging (Controllable)
Ac output	3-Phase 3-Wire, PE (without Transformer)
General Data	
Dimension w/o clearances (LxWxH)	6,058x2,438x2,591mm
Weight of the whole system	19t
Degree of protection	IP54
Operatingtemperature range	-10~40°C (Max.-20~50°C)
Relative humidity	0~95% (non-condensing)
Max working altitude	2,000m/6,500feet (non-derating)
Cooling concept of Dc hatch	Air cooling
Fire fighting system	FK-5-1-12 (NOVEC1230)
Communication interfaces	RS485, Ethernet
Certificates	UL9540, UN3536

工商业储能系统

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Z PCS 储能变流器

Power Conversion System

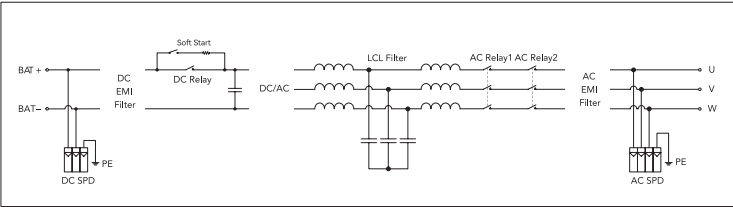


- 独立充放电每个集群
 - 快速即插即用，易于扩展
 - C5M 防腐等级
 - 交流侧并联（最多 40 套）
 - 形成电网 / 黑启动能力
 - Charge/discharge each cluster independently
 - Fast plug and play, easy expansion
 - C5M anti-corrosion grade
 - Parallel in AC side (maximum 40 sets)
 - Grid-forming/black start capability
 - Safe and reliable
- 安全可靠
 - 模块化设计理念
 - 无需高级技术服务人员
 - 水平和垂直安装热设计
 - 更高的电池容量利用率
 - Modular design philosophy
 - No need advanced technical service personnel
 - Horizontal and vertical mounting
 - thermal design
 - Higher battery capacity utilization

型号 Model	ZOE-ECS200-HA-A	ZOE-ECS180-HA-A	ZOE-ECS159-HA-A	ZOE-ECS139-HA-A
直流侧参数 DC Side Parameters				
最大直流电压 Maximum DC voltage	1500V			
最大直流功率 Maximum DC power	224.5kW	202.0kW	178.5kW	156.0kW
最大直流电流 Maximum DC current	222.6A	220.4A	218.8A	221.0A
直流工作电压范围 DC voltage range	1030~1500Vdc	945~1500Vdc	830~1500Vdc	730~1500Vdc
满载电压范围 Full load DC voltage range	1100-1400Vdc	1000-1350Vdc	890-1300Vdc	770-1200Vdc
额定直流电流 Rated DC current	145.8A	136.1A	124.8A	118.2A
电网侧参数 AC Side Parameters				
额定交流功率 Rated output power	200kW	180kW	159kW	139kW
最大交流功率 Maximum output power	220kW	198kW	174.9kW	152.9kW
额定电网电压 Rated grid voltage	690Vac	630Vac	550Vac	480Vac
电网电压范围 Grid voltage range	3W+PE， -15%~+10%（可设置）			
额定输出电流 Rated output current	167.4A	165.0A	167.0A	167.2A
最大交流电流 Maximum output current	184.1A	181.5A	183.6A	184.0A
过载能力 Overload capacity	1.1 倍运行 10min， 1.2 倍运行 1min			
额定电网频率 Rated grid frequency	50/60Hz			
功率因数可调范围 Power factor	-1~+1			
额定功率 THD	<3%			
常规参数 General Data				
隔离方式 Isolation Mode	无变压器 Transformerless			
最大效率 Max.efficiency	99%			
防护等级 Protection degree	IP66			
运行温度范围 Operating Temperature	-40~+60℃（超过 45℃降额 Derating）			
允许湿度范围 Relative Humidity	0~100%（无凝露 Non-condensing）			
最高运行海拔高度 Maximum Operating Altitude	4000m（ > 2000m 降额 Derating）			
冷却方式 Cooling Method	智能风冷 Smart Cool Air			
通讯接口 COM interfaces	RS485/ CAN/ Ethernet			
外形尺寸（宽 / 高 / 深） Dimensions (W*D*H)	900*850*285mm			
重量 Weight	98kg			



线路图 Circuit diagram



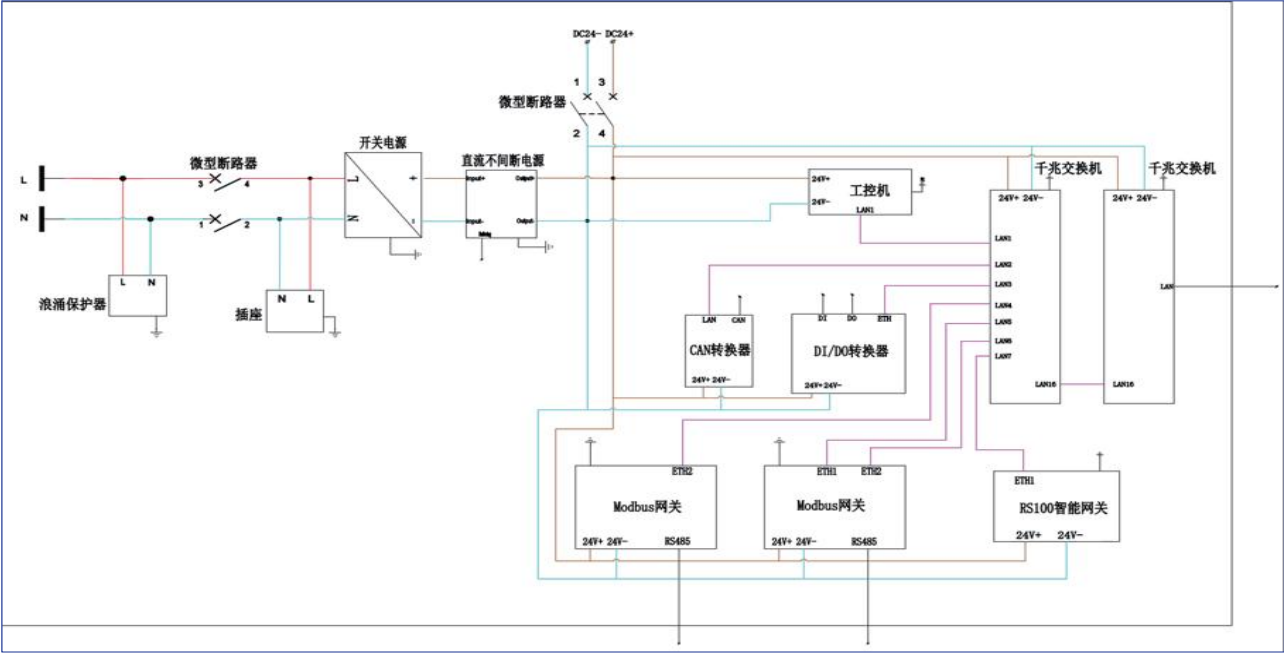
- 独立充放电每个集群
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 - C5M 防腐等级
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型号 Model	ZOE-ECS200-HB-A
直流侧参数 DC Side Parameters	
最大直流电压 Maximum DC Voltage	1500 Vdc
启动电压 Startup voltage	1000 Vdc
最大输入电流 Max. input current	224.5 A
满载电压范围 Full-load voltage range	1000~1500 Vdc
交流参数 (并网) Output -AC (on-grid)	
交流输出功率 AC output power	220kVA@35 °C , 200kVA@45 °C
额定输出电压 Rated output voltage	690Vac, 3W+PE
交流电压范围 AC voltage range	607~759 Vac (可调 Adjustable)
额定频率 Rated frequency	50/60 Hz
额定 (最大) 输出电流 Rated (Max.) output current	167.4 A (184.1 A)
功率因数 Power Factor	-1~+1
THDi	<1.5% (100% load)
交流输出 (离网) Output -AC (off-grid)	
额定输出电压 Rated output voltage	690Vac, 3W+PE
交流电压范围 AC voltage range	607~759 Vac (Adjustable)
额定频率 Rated frequency	50/60 Hz
交流电压谐波 AC voltage distortion	<1.5% (100% linear load)
直流电压分量 DC voltage component	<0.5% Un (Linear balance load)
不平衡待载能力 Unbalanced load capacity	100%
常规参数 General Data	
最大效率 Max.efficiency	99%
European efficiency	98.5%
隔离变压器 Isolation Transformer	无变压器 transformerless
防护等级 Protection degree	IP66
工作温度 Operating Temperature	-40~+60℃ (>45℃ 降额 derating)
相对湿度 Relative Humidity	0-100%, 无凝露 non-condensing
冷却方式 Cooling Method	智能风冷 Smart air cooling
最高运行海拔 Maximum Operating Altitude	4000m (>3000m derating)
通讯协议 Communication interfaces	RS485/CAN/Ethernet
尺寸 Dimensions (W × D × H)	810*275*845mm
重量 Weight	98kg
标准 Standard	GB/T 34120-2017 GB/T 34133-2017 IEC 62477-1 IEC 61000-6-2
	IEC 61000-6-4 EN 50549-1 EN 50549-2

工商业储能系统
Commercial and Industrial Products

Z EMS 能源管理系统
Energy Management System

产品架构



产品型号	ZOE-SmartM200-A	ZOE-SmartM200-C
交流输入	100V~240Vac	
操作系统	Linux	
支持光伏容量	最大 6.6MWp, 可扩展	/
支持储能容量	最大 2.32MWh, 可扩展	最大 1.16MWh, 可扩展
数据存储	MYSQL	
典型功能	分时功率、SOC 均衡、负荷预测、功率预测、调度管理、支持 SaaS、防逆流	
通信协议	Modbus RTU, Modbus TCP, (IEC104 选配)	Modbus RTU, Modbus TCP
RS485 接口	8	2
DI/ DO	4/4	/
光口	4*100Mbps (选配)	
以太网 (FE)	10*10/100Mbps	6*10/100Mbps
4G	全网通 (选配)	
典型功耗	≤140W	≤120W
工作温度	-20℃ ~ +60℃	
存储温度	-40℃ ~ +70℃	
湿度	5% ~ 95%	
海拔	≤ 3000m	
防护等级	IP65	
安装方式	室内或室外、壁挂 / 支架安装	
尺寸 (W*H*D)	806*685*250mm	
重量	23±3kg	21±3kg

Lite 版
轻量版

定位小型工商业储能项目，可接入 5 台 Z BOX-C，实现削峰填谷、防逆流等工商业储能功能应用

Plus 版
高配版

定位大型工商业储能项目，可接入 20 台 ZBOX-H 或 Z BOX-C，实现削峰填谷、防逆流、智能调度、负荷管理等工商业储能功能应用

应用场景 Application Scenario



源网侧储能系统解决方案

在全球能源转型的大背景下，源网侧储能系统的解决方案显得尤为重要。通过集成能源生产、逆变、储能、监控、通讯等关键环节的数字化协同管理，强化电力系统在源网侧的稳定性、可靠性及经济性。我们积极推动清洁能源的大规模应用，以回应当前对于环保和可持续发展的社会需求。

主要场景：风光新能源、电站配储、大型火电、水电站配储、共享储能、调频储能

主要需求：调峰、调频，解决新能源波动性和间歇性问题

Generation/Grid Side Energy Storage Solutions

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



ZOE



工商业储能系统解决方案

面对工商业的多元化需求，我们提供一套定制化的储能系统解决方案。方案采用模块化设计，可以灵活适配各类工商业场景，支持多种运行模式，以最大化投资回报。工商业储能系统解决方案重点关注峰谷电力需求的调度，通过实现峰谷时移和错峰用电，能有效缓解电网压力，同时降低电力成本。这对于对电力稳定性和连续性有较高要求的工商业用户，如数据中心、医疗设备、生产线等，尤为重要。

· **主要场景：**油改电全场景、工厂园区、港口码头、商业办公楼、数据中心、光储充及其他

· **主要需求：**限电断电、尖峰电价高昂、需量高、需量电费高昂、容量不足、变压器扩容成本高、场地限制、ESG 要求

Commercial & Industrial Energy Storage Solutions

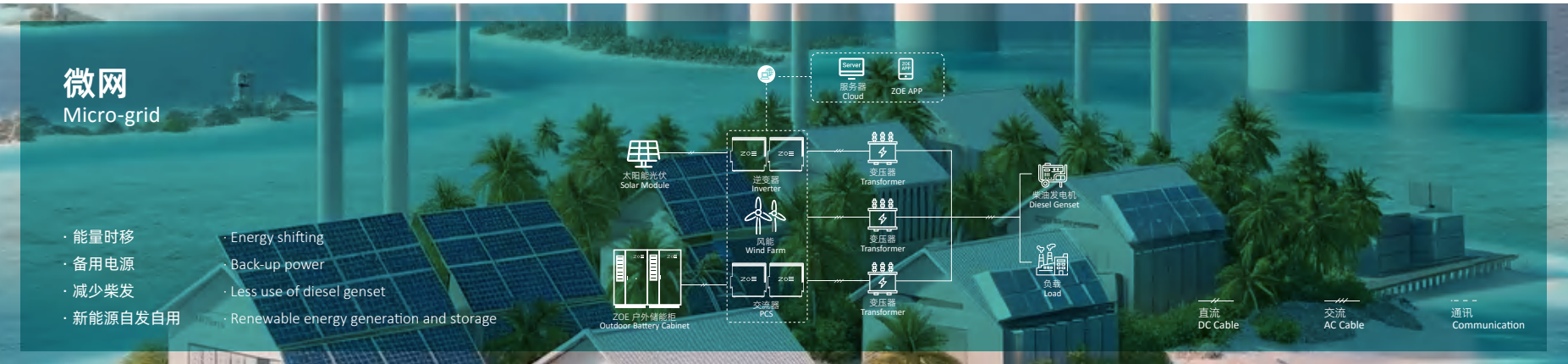
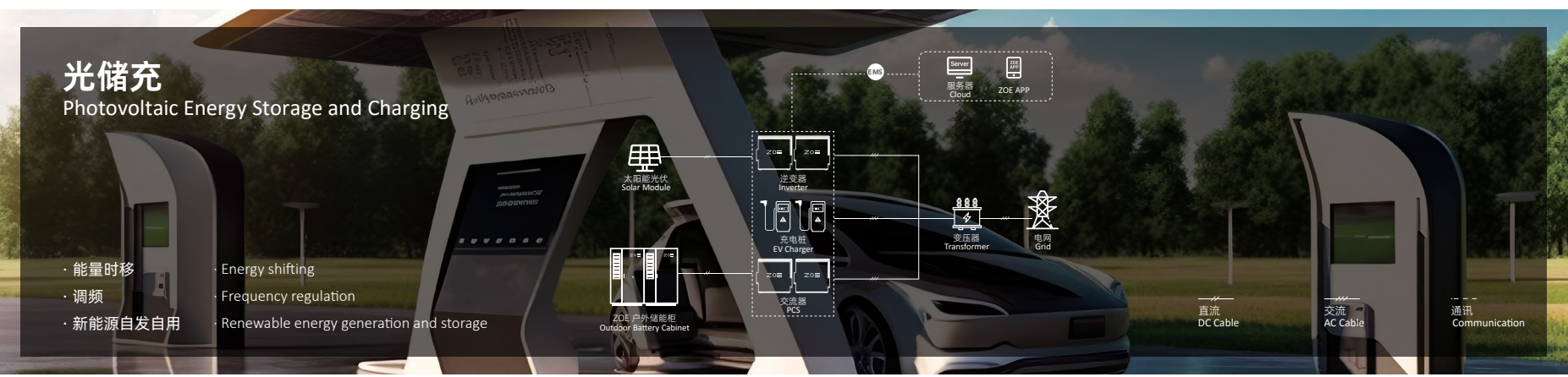
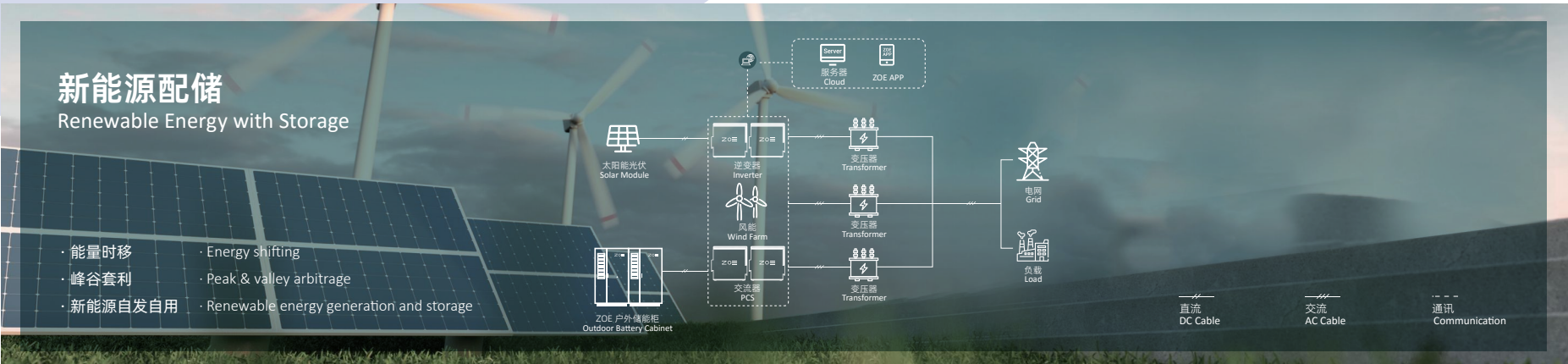
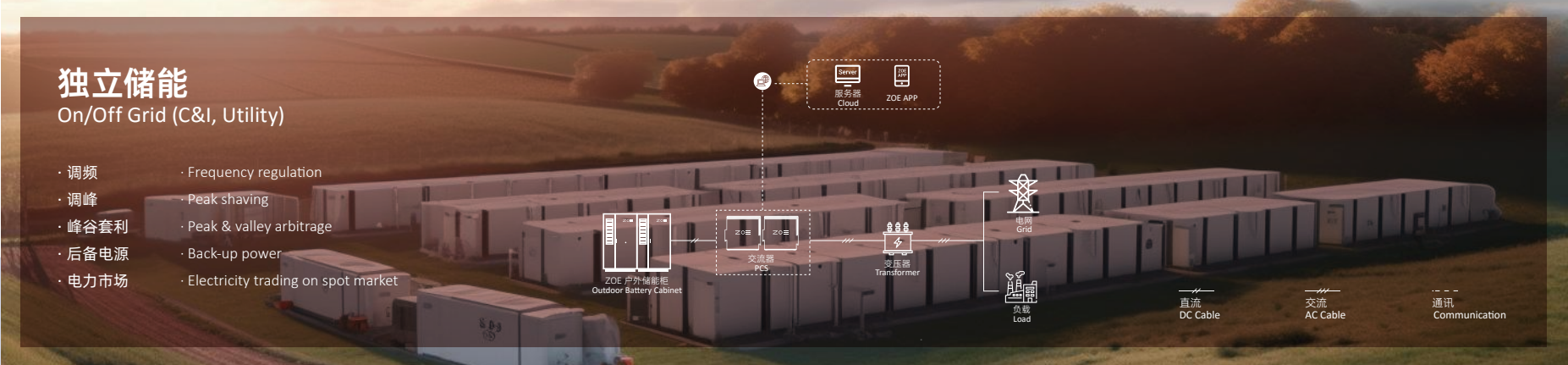
Offering tailored energy storage solutions for commercial and industrial demands, our modular design flexibly fits diverse settings, enhancing investment return. Focused on peak and valley power management, these solutions facilitate peak shifting and load leveling, reducing grid stress and electricity 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

解决方案 Solution

- 独立储能 On/Off Grid (C&I, Utility)
- 新能源配储 Renewable Energy with Storage
- 光储充 Photovoltaic Energy Storage and Charging
- DC 耦合 DC Coupling
- 微网 Micro-grid



虚拟电厂储能项目

Virtual Power Plant (VPP) Projects



场景需求 Scenario Requirements	支持电网需求侧管理 / 供给侧资源的优化 Supports demand-side management of the grid / Optimizes supply-side resources
建成时间 Project Date	2024
项目容量 System Capacity	5.673MW / 11.346 MWh
投运策略 Commissioning Strategy	分布式能源聚合 / 需求侧响应 / 参与电力市场 Distributed energy aggregation / Demand side response / Participation in the electricity market



芯特科技



蓝宇新材料



昌鸿制盖



洪运纤维



天森装饰材料



超达汽配



华伟兴业印染

荣获
第八届国际储能创新大赛
应用创新组用户侧赛道
优秀项目



源网侧新能源配储

Generation/Grid Side Renewable Energy with Storage



27MW/27MWh

西山电站储能项目

Xishan Energy Storage Power Station Project



场景需求 Scenario Requirements

光伏配储 PV+Storage

并网时间 Project Date

2023

项目容量 System Capacity

27MW/27MWh

投运策略 Application

调峰、调频 Peak shaving, Frequency regulation

方案配置 Configuration

产品 Product

Z BOX-H

PCS

规格 Specification

1C

3150kW

数量 Quantity

72

9



工商业新能源配储

Commercial and Industrial Renewable Energy with Storage



11MW/22MWh

宏丰光储项目
Hongfeng Solar and Storage Project



场景需求 Scenario Requirements		24 小时不间断用电、高耗能 24-hour uninterrupted power use, high energy consumption		方案配置 Configuration	
并网时间 Project Date		2024		产品 Product	Z BOX-H PCS
项目容量 System Capacity		11MW/22MWh		规格 Specification	0.5C 200kW
投运策略 Application		节能减排、保安电源 Peak shaving, Back-up power		数量 Quantity	60 60

高海拔地区新能源配储

Renewable Energy with Storage in High-Altitude Areas



高原储能项目

Highland Energy Storage Project



场景需求 Scenario Requirements

高海拔地区、低温环境新能源配储
Renewable energy storage in low-temperature environments at high altitudes

投运策略 Application

新能源有效利用，避免弃风弃光
Maximizing renewable energy use, preventing wind and solar waste

方案配置 Configuration

产品 Product	Z BOX-H/C	PCS
规格 Specification	0.5C	200kW/100kW

工商业储能

Commercial and Industrial Energy Storage



场景需求 Scenario Requirements	节能、降需 Energy saving, Demand reduction
并网时间 Project Date	2023
投运策略 Application	峰谷套利、需量管理 Peak & valley arbitrage, Demand management



卓阳 SMS 安心系统

Safety Management System

打造能让您安心入睡的储能产品

Designing energy storage solutions for your absolute peace of mind



锂电池储能安全风险管理系统

Lithium Battery Energy Storage Safety Risk Management System

电芯级

SMS 具有完善的数据采集和分析能力: BMS 数据 + 环境参数 (如温湿度、振动特性和 VOC 气体浓度), 建立了从信息采样, 到终端特征级边缘计算, 再到云端决策级融合的技术体系, 进行电芯全生命周期的健康管理, 并实现风险预测和预警。

模组级

通过多传感器融合, 特有的声纹识别比其他监测工具快 20 秒以上, 且使用寿命可长达 15 年。

在热失控早期 (T1 温度) 识别特征后, SMS 将在毫秒级别内切断所有输出, 并启动全氟己酮模组进行降温处理。

簇级

检测到温度或烟雾感知异常升高, SMS 系统将立即启动第 4 代 S 型气溶胶灭火技术进行全柜浸没式灭火。

电池仓 20mm 包裹防火隔热棉, 对整个柜体进行隔绝保护。

电站级

| 物理安全 |

提供包括防火墙、警示围栏等物理安全设施, 并在储能设备区域安装有摄像监控、红外感应器、警报系统等, 确保现场的安全监控。

| 消防设备 |

SMS 系统包括储能设备外部部署的本地自动消防灭火系统。

| 设备健康 |

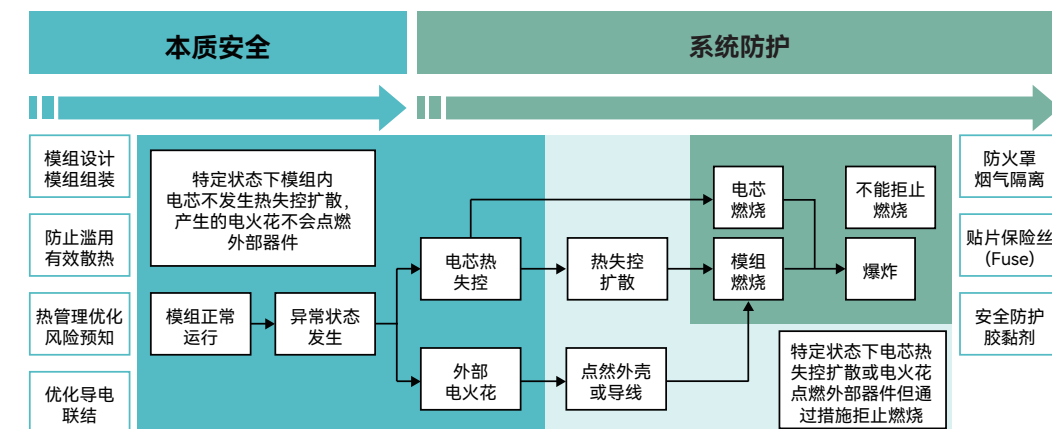
定期对储能设备的工作状态进行现场检查包括充电状态 输出电力 温度等, 进行预防性维护。

| 信息安全 |

EMS 及 EaaS 系统采用高等级的加密、防火墙等安全措施, 以保护电站数据安全 and 通信系统不受外部攻击。

| 保险方案 |

为设备和设施购买了财产保险, 覆盖剩余风险敞口。



本质安全: 降低风险概率, 将热效应能量限制在不热失控的水平。

系统防护: 控制热扩散, 将损失影响降低至可接受水平。

EaaS - 分布式能源资产全生命周期管理

Distributed Energy Asset Lifecycle Management

卓阳储能凭借创新的“能源即服务”模式，建立了分布式能源资产全生命周期管理体系，深度理解和把握客户需求，通过数字化、智能化手段，为客户提供资产投前、投中、投后的全方位一站式服务。

Leveraging the “Energy as a Service” model, ZOE Energy Storage establishes a comprehensive lifecycle management system for distributed energy assets, deeply understanding and meeting customer needs with a full spectrum of services from pre to post-investment through digital and smart technologies.



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