



**Dedicated to Being a Global Force
in Transforming Energy Structures**



ZOE Energy Storage

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.



Core Business

ENERGY STORAGE PLANTS
Investment and operation

ENERGY STORAGE SYSTEM
R&D, Manufacturing, Sales



R&D Innovation

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



Manufacturing

14GWh Intelligent Energy Storage Factory



Digital Energy

- Full Lifecycle Management of Energy Storage Projects and Assets
- Cloud-Edge-End Integrated Platform for Energy Storage Management
- Aggregating multiple types of energy to implement a variety of digital energy solutions



Our Service

Service Area
Europe, China, Online Services

Technical Support
O&M Analysis, After-Sales Service

Project Cases



Projects Gallery

C&I energy storage for reducing monthly electricity costs, peak shaving, frequency regulation

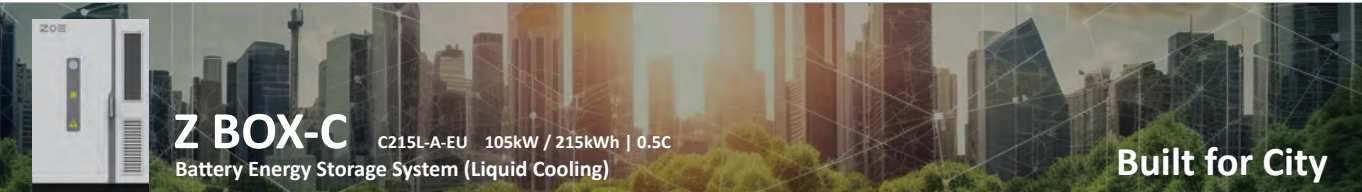


Commercial and Industrial Products



General data	
DOD	95%
Protection degree	IP55 (Battery room)
Cooling concept	Liquid cooling
Heating concept	Liquid heating
Fire suppression system	Aerosol
Operating temperature range	-20~55 °C
Relative humidity	5%~95% RH
Max.working altitude	2000 m
Display	APP/ Web/ LED
COM interfaces	RS485/ Ethernet
Dimensions (W*D*H)	1370*1330*2270 mm
Weight	3550±50 kg

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
DC rated voltage	1331.2 V
DC voltage range	1164.8~1497.6 V
Rated DC current	140 A
Max. DC current	160 A



General data	
DOD	95%
Protection degree	IP55 (Battery room & PCS room)
Cooling/Heating concept	liquid cooling/ liquid heating
Fire suppression system	Aerosol
Operating temperature range	-20~55 °C
Relative humidity	5%~95% RH
Max.working altitude	2000 m
Display	APP/ Web/ LED
COM interfaces	RS485/ Ethernet/ 4G (optional)
Dimensions (W*D*H)	1399*1344*2080 mm
Weight	2450±50 kg

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
DC rated voltage	768 V
DC voltage range	672~864 V
Rated DC current	140 A
Max. DC current	160 A

AC Data	
Rated AC power	105 kW
Rated grid voltage	400 Vac
Rated grid frequency	50/60 Hz
Max. AC current	167 A
AC wiring type	3W/N+PE
Power factor	-1~+1

Qualification Certification

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



Commercial and Industrial Products




Z BOX-I01

Battery Energy Storage System (Air Cooling)



Built for City

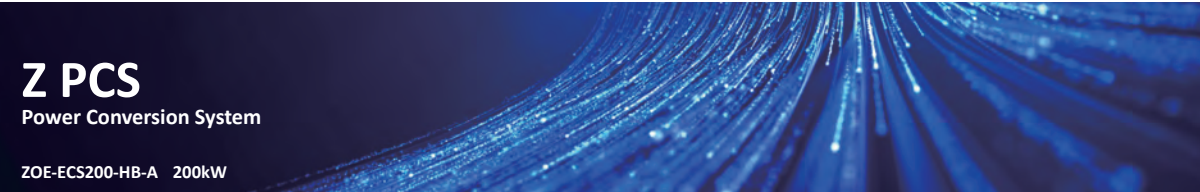
Model	I01-90KN-94	I01-100KN-104	I01-110KN-114	I01-120KN-125	I01-120KN-135	I01-150KN-156
Battery						
Cell type	LFP					
Battery cell capacity (Ah)	102					
System configuration	9*(2P16S)	10*(2P16S)	11*(2P16S)	12*(2P16S)	13*(2P16S)	15*(2P16S)
Rated DC voltage (V)	460	512	563	614	665	768
DC voltage range (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					



Z PCS

Power Conversion System

ZOE-ECS200-HB-A 200kW



General data	
Max. efficiency	99%
European efficiency	98.5%
Isolation mode	Transformerless
Protection degree	IP66
Operating temperature range	-40~+60 °C (>45 °C derating)
Relative humidity	0-100%, non-condensing
Cooling	Smart air cooling
Max.working altitude	4000m (>3000m derating)
Communication interfaces	RS485/CAN/Ethernet
Dimensions (W*D*H)	810*275*845mm
Weight	98kg
Certification	IEC 62477-1 IEC 61000-6-2 IEC 61000-6-4 EN 50549-1 EN 50549-2
Input -DC	
Max. DC voltage	1500 Vdc
Startup voltage	1000 Vdc
Max. input current	224.5 A
Full-load voltage range	1000~1500 Vdc

Output -AC (on-grid)	
AC output power	220kVA@35 °C , 200kVA@45 °C
Rated output voltage	690Vac, 3W+PE
AC voltage range	607~759 Vac (Adjustable)
Rated frequency	50/60 Hz
Rated (Max.) output current	167.4 A (184.1 A)
Power factor	-1~+1
THDi	<1.5% (100% load)

Output -AC (off-grid)	
Rated output voltage	690Vac, 3W+PE
AC voltage range	607~759 Vac (Adjustable)
Rated frequency	50/60 Hz
AC voltage distortion	<1.5% (100% linear load)
DC voltage component	<0.5% Un (Linear balance load)
Unbalanced load capacity	100%

Commercial and Industrial Products



Z BOX-P



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

System Model	A1H3441L-B	A2H3441L-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 C~50 C 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	
Aux. Power Supply	(Optional)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)

Products model	A1H1100L-C-EU
DC Data	
Battery chemistry	Lithium Iron Phosphate (LFP)
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 orlagging(Controllable)
AC output	3-Phase 3-Wire, PE(without Transformer)
General Data	
Dimension w/o clearances (L*W*H)	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

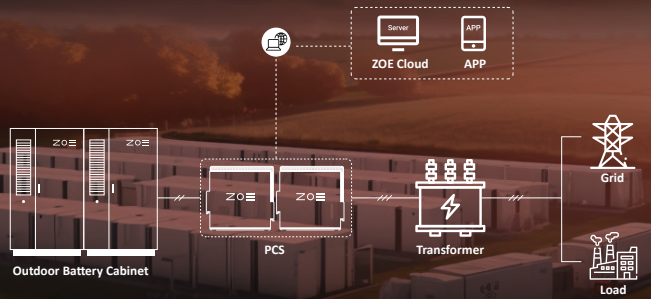
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On/Off Grid (C&I, Utility)

Features

- Frequency regulation
- Peak shaving
- Peak & valley arbitrage
- Back-up power
- Electricity trading on spot market

DC Cable AC Cable Communication



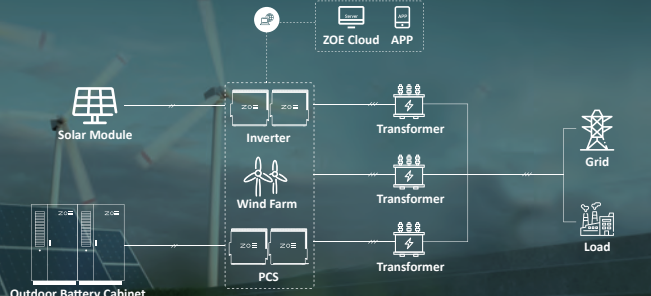
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Renewable Energy with Storage

Features

- Energy shifting
- Peak & valley arbitrage
- Renewable energy generation and storage

DC Cable AC Cable Communication



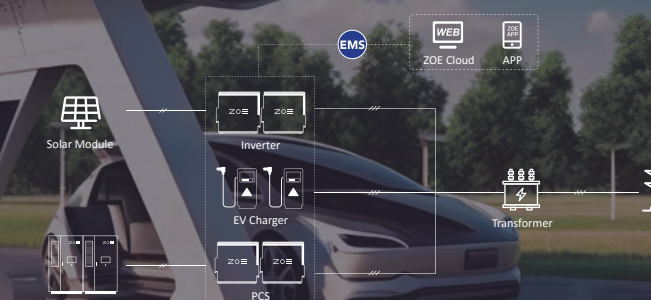
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Renewable Energy with Storage

Features

- Energy shifting
- Frequency regulation
- Renewable energy generation and storage

DC Cable AC Cable Communication



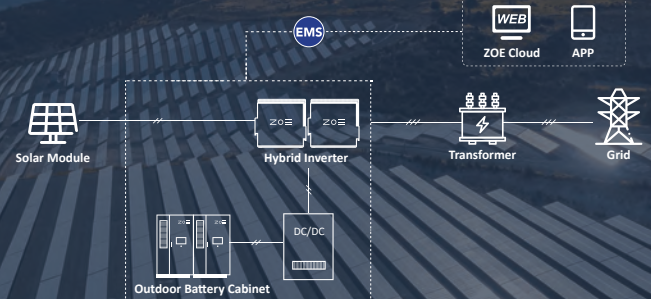
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DC Coupling

Features

- Peak shaving
- Enhancing energy efficiency
- Costs-efficiency
- Simplifying system structure

DC Cable AC Cable Communication



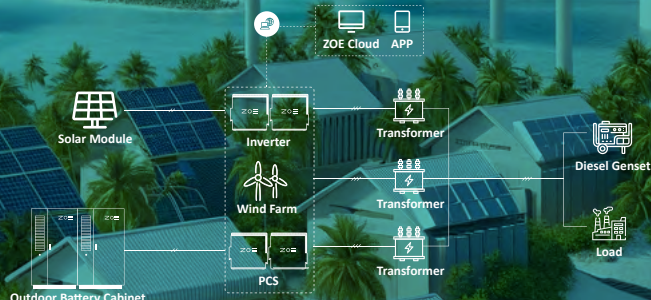
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Micro-grid

Features

- Energy shifting
- Back-up power
- Less use of diesel genset
- Renewable energy generation and storage

DC Cable AC Cable Communication



BUSINESS COOPERATION

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