

Dedicated to Being a Global Force in Transforming Energy Structures



TIER1 GLOBAL ENERGY STORAGE
MANUFACTURER BY BNEF



About ZOE

ZOE Energy Storage, a global provider of integrated energy storage equipment and system solutions, is recognized as a Tier 1 Global Energy Storage Manufacturer. Headquartered in Shanghai, ZOE operates advanced 4GWh energy storage and PCS manufacturing plants and an R&D center certified as a TMP Laboratory by both TÜV Rheinland and TÜV NORD. In partnership with leading universities and research institutions, ZOE has established joint laboratories to advance the development and application of energy storage technology. With its standardized and customized energy storage solutions, ZOE seamlessly integrates into diverse application scenarios, ensuring efficient and balanced power distribution across various electrical demands.

Tier 1 Global Energy Storage Manufacturer

- Energy storage equipment integration
- Energy storage system solution

R&D Innovation

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

Manufacturing

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

High-quality Service

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

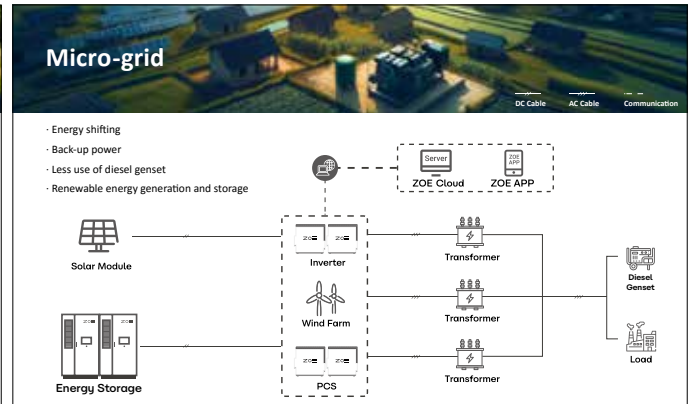
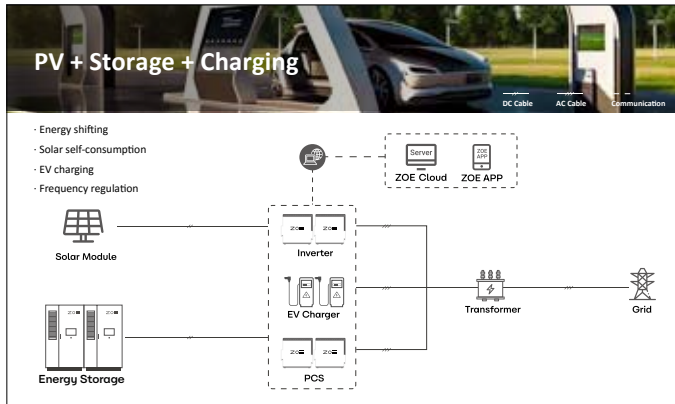
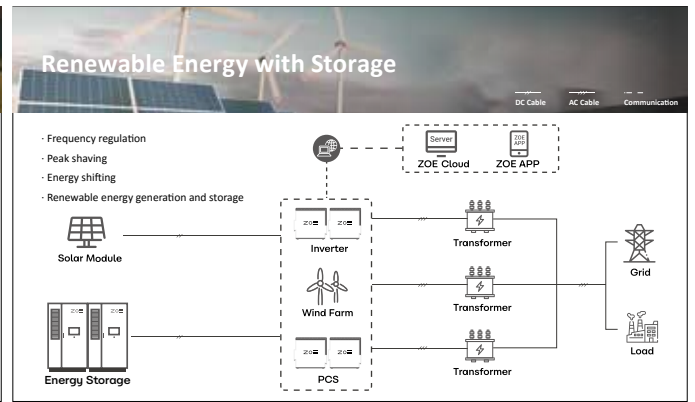
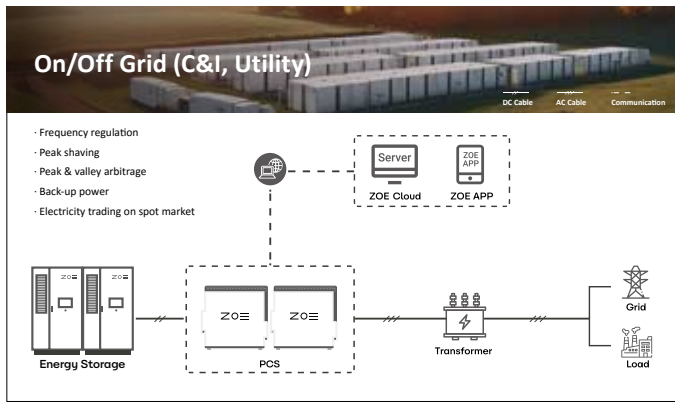
Certification

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.



Solutions



Projects Gallery



Benchmark Cases

Utility

📍 China

Solution: 27MW / 27MWh, Z BOX-H 372kWh
Scenario: PV power generation
Application: Renewable integration; Energy shifting; Curtailment avoidance

Utility

📍 China

Solution: 30MW / 60MWh, Z BOX-H 372kWh
Scenario: PV-ESS-hydrogen integration project
Application: Renewable integration; Energy shifting; Green hydrogen production

Commercial & Industrial

📍 Sweden

Solution: 630kW / 1290kWh, Z BOX-C 215kWh
Scenario: Solar park
Application: Solar self-consumption; Frequency regulation

Commercial & Industrial

📍 China

Solution: 11MW / 22MWh, Z BOX-H 372kWh
Scenario: Copper foil factory
Application: Peak shaving; Solar self-consumption; Backup power

PV + Storage + Charging

📍 China

Solution: 93kW / 186kWh, Z BOX-C 186kWh
Scenario: Parking lot
Application: EV charging; Transformer capacity expansion

Micro-Grid

📍 Sweden

Solution: 105kW / 215kWh, Z BOX-C 215kWh
Scenario: Vacant lot
Application: Micro-grid; Backup power

ENERGY STORAGE CABINET



Energy Cost Savings



Renewable Integration



PV-ESS-Charging



Micro grids



Z BOX-C **ALL-IN-ONE ESS Cabinet**

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

- Safe & Reliable
- Flexible Deployment
- Cost-efficient
- Smart Management

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



Z BOX-H **Battery Cabinet**

● H 372-2H C372L-D-EU 372kWh | 0.5C

- Safe & Reliable
- Flexible Deployment
- Cost-efficient
- Smart Management



Z PCS 200kW
PCS and Battery Cabinet Solution

Battery Data		General Data	
Cell type	LFP	DOD	95%
Rated capacity	280 Ah	Noise	≤75dB
Serial-parallel type	1P416S	Protection degree	IP 55 (Battery room)
Rated capacity per pack	46.592 kWh	Cooling method	Liquid cooling/ heating
Pack number	8	Fire suppression system	Aerosol
System rated energy capacity	372.736 kWh	Operating temperature range	-19 ~ 55° C (> 45° C derating)
Rated DC voltage	1331.2 V	Relative humidity	5% ~ 95% RH
Rated DC voltage range	1164.8~1497.6 V	Max.working altitude	2000 m
Rated DC current	140 A	Display	Web/ LED
		COM interfaces	RS485/ Ethernet
		Dimensions (L*W*H)	1330*1370*2270 mm
		Weight	3550±50 kg



Z BOX-I ALL-IN-ONE ESS Cabinet

● **I 156-1H** 150kW / 156kWh | 1C

- Low costs
- Safe & reliable
- Flexible
- Efficient

Model	I01-90KN-94	I01-100KN-104	I01-110KN-114	I01-120KN-125	I01-120KN-135	I01-150KN-156
Battery data						
Cell type	LFP					
Rated capacity	102 Ah					
Serial-parallel type	2P144S	2P160S	2P176S	2P192S	2P208S	2P240S
Rated capacity per pack	10.444 kWh					
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	2000 m					
Display	LED + Touch Screen (Optional)					
COM interfaces	WiFi + LAN+4G					
Dimensions (L*W*H)	1500*1600*2200 mm					
Weight	2290±50 kg	2375±50 kg	2460±50 kg	2545±50 kg	2630±50 kg	2800±50 kg

ENERGY STORAGE CONTAINER



Energy Cost Savings



Renewable Integration



Continuous Power



Grid Enhancement

● P 1300-1H **ALL-IN-ONE ESS Container**

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	-1 ~ 1
General Data	
DOD	90%
Noise	≤80dB
Protection degree	IP 54
Cooling method	Liquid cooling/ heating
Fire suppression system	NOVEC 1230 + 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	20 T

● P 3400-2H **Battery Container**

P3440L2H-B 3440kWh | 0.5C

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
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 3400-1H Battery Container

P3440L1H-B 3440kWh | 1C

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

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 5000-2H Battery Container

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	1040~1497.6 V

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



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