ZOE
ENERGY STORAGE

Z BOX-EV

EV Energy Storage & EV Charging System

- Dynamic capacity augmentation
- Lower upfront costs & revenue optimization
- Shorter payback period
- Easy O&M and space-saving
- Charge through blackouts: Uninterrupted EV power with grid-independent storage
- Plug and Play

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The ESS-EV system enables fast charging (1*180kW or 2*90kW simultaneously) and flexible grid connection (min. grid power 30kVA). It integrates energy storage and charging terminals in a compact all-in-one design, reducing space and simplifying installation. With 218kWh storage, it enhances charging station capacity, effectively handling peak demand. This solution is ideal for areas with limited space.

Product Specification Sheet

General Data	
DOD	90%
Noise	≤75dB
Protection degree	IP 54
Cooling method	Liquid cooling/ heating
Fire suppression system	Aerosol
Operating temperature range	-25 ~ 55 °C (> 45°C derating)
Relative humidity	5% ~ 95% RH
Max.working altitude	2000 m
Display	15-inch touch screen
COM interfaces	RS485/ Ethernet
Dimensions (L*W*H)	2193*1344*1960 mm
Weight	3200±50 kg (total weight)
Charger Data	
Number of charging guns	2
Charging power	DC Max 180kW
Charging gun line	300A, 5m, CCS2(booster optional)
Charging voltage	300~1000V
Efficiency	≥96.5%
Charging power module	Air-cooled
Communication protocol	Support for OCPP 1.6J and Modbus
EMC	Class A (industrial)

Battery Data	
Cell type	LFP
Rated capacity	285 Ah
Serial-parallel type	1P240S
Rated capacity per pack	43.776 kWh
Pack number	5
System rated energy capacity	218.88 kWh
Rated DC voltage	768 V
Rated DC voltage range	672~864 V
Rated DC current	342A
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	-0.99 ~ +0.99

About ZOE

ZOE Energy Storage is a Tier 1 provider of integrated energy storage products and system solutions. Our flagship ESS- Z BOX series has obtained European most stringent safety and quality certifications, enabling global deployment with proven reliability and technological excellence. Through vertically-integrated expertise spanning R&D, certification, and mass deployment, we provide customers worldwide with optimized ESS solutions balancing safety and cost-effectiveness