

EV Charging & Energy Storage System

All-in-one ESS met EV-lader 218 kWh / 180 kW



The Z BOX-EV is an integrated EV charging and energy storage solution that enables dynamic capacity augmentation, reducing upfront costs and optimizing revenue for a shorter payback period. With a plug-and-play design, easy O&M, space-saving footprint, and uninterrupted power through blackouts via grid-independent storage, this system delivers reliable and efficient charging for any deployment.

 **Dynamic Capacity Augmentation**

 **Easy O&M & Space-Saving**

 **Lower Upfront Costs & Revenue Optimization**

 **Charge Through Blackouts**
Uninterrupted EV power with grid-independent storage

 **Shorter Payback Period**

 **Plug & Play**

Parameters

Battery Data	
Cell Type	LFP
Rated Capacity	285Ah
Serial-Parallel Type	1P240S
Rated Capacity Per Pack	43.776kWh
Pack Number	5
System Rated Energy Capacity	218.88kWh
Rated DC Voltage	768V
Rated DC Voltage Range	672~864V
Rated DC Current	342A
AC Data	
Rated AC Power	105kW
Rated AC Voltage	400Vac
Rated Frequency	50/60Hz
Rated AC Current	152A
Max. AC Current	167A
Ac Wiring Type	3W/N+PE
Power Factor	-0.99~+0.99
General Data	
DOD	90%
Noise	≤75dB
Protection Degree	IP54
Cooling Method	Liquid Cooling/Heating
Fire Suppression System	Aerosol
Operating Temperature Range	-25 °C ~ 55°C (> 45°C Derating)
Relative Humidity	5% ~ 95%RH
Max. Working Altitude	2000m
Display	15-inch Touch Screen
Com Interfaces	RS485/ Ethernet
Dimensions (L*W*H)	2193*1344*1960mm
Weight	3200±50kg(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)