



C&I All-in-one ESS

Z BOX-C PLUS 261 2H

125kW/261kWh | 0.5C

Up to 90%

System Round-Trip Efficiency (RTE)

≥ 8,000 cycles

System Cycle Life

≤ 3°C

Cell Temperature Difference

CATL

Battery Cells Available

IP55

Protection Rating

1.3m²

Minimize Land Occupation

Applications



C&I grid-tied VPP



Peak shaving



Demand control application



Black start compatible



Seamless on/off-grid switching



Wide Temperature Range

Standard -30°C low-temperature operation



Rapid FFR/FCR-D Response

Supports pre-commissioning with various VPP partner



Eco-Friendly & Ultra-Quiet

Minimum average operating noise ≤65 dB



Certified to Safety Standards

UL9540A & IEC62933



AI-Powered Temperature Control System

Lower self-consumption, ≤ 3°C cell temp. difference



Fast Installation and Commissioning

Plug-and-play, all-in-one design, flexible deployment



Safety from Cell-to-System

Pack-level fire suppression available, early stage warning



Multiple Grid-Compliant Certifications

Parameters

AC Output Data(On-grid)	
Nominal Output Power(kW)	125
Nominal Output Voltage(V)	400,3L/N/PE
Nominal AC Grid Frequency(Hz)	50/60
Max. AC Output Current(A)	200
Nominal Output Current(A)	180
Power Factor	-1~+1
Max. Total Harmonic Distortion	<3%
Battery Data	
Pack Nominal Energy (kWh)	52.2496
Battery Pack Configuration	1P52S
Number of Packs	5
Rack Nominal Energy(kWh)	261.248
Nominal Voltage(V)	832
Operating Voltage Range(V)	728-936
Max. Charge/Discharge Current(A)	180
Max. Charge/Discharge Power(kW)	138
Cycle	8000
Efficiency	
System Round Trip Efficiency	up to 90%
Ingress Protection Rating	IP55(Battery Cabinet)
Anti-Corrosion	C4(C5 Optional)
Fire Suppression	Aerosol / Water
General Data	
Working Temperature Range(°C)	-30~+55
Derating Temperature(°C)	45
Storage Temperature(°C)	-20~+45(1 month)0~+35(1 year)
Relative Humidity	0~95%
Max. Operating Altitude (m)	3000m (Derating above 2000m)
Cooling Method	Smart Liquid Cooling
Display	Web/LED
Communication Protocol	Modbus TCP
Weight(kg)	2550±50
Dimension(W×H×D mm)	990*2300*1320
Noise Emission(dB)	≤65
Topology	Non-Isolated
Audible and Visual Alarm	Optional
Explosion Venting Function	Standard
Pack-Level Fire Protection	Optional
Fire Water Connection	Standard
Standards&Certification	UL9540A,IEC62933-5-2,IEC 62619,IEC 63056, IEC62477-1,IEC 61000-6-2/-4,UN38.3
Grid Code	EN50549-1/2/10, G99/G100, VDE-AR-N 4105/4110/4120, AS4777 etc.