

Utility Battery Container

Z BOX-P 5000 2H

5.015MWh



The Z BOX-P series energy storage containers are primarily deployed in utility-scale projects and offer multiple operation modes including Peak Shaving, Frequency Regulation, Dynamic Capacity Augmentation, and Electricity Market Trading. The Z BOX-P 5000 2H delivers 5MWh in a 20ft high container with liquid cooling, multi-layered fire protection, and full safety certifications including UL9540A and IEC62933.



Higher Energy Density
5MWh in one 20ft high container



Certified to Safety Standards
UL9540A & IEC62933



Safe and Reliable
Multi-layered SMS with top-mounted explosion venting function



Tier 1 PCS-Compatible
2H~8H Long-duration energy storage



Eco-Friendly & Ultra-Quiet
Minimum average operating noise ≤ 75 dB



IP55
Protection level

Parameters

Battery Data	
Cell Type	LFP
Rated Capacity	314Ah
Serial-Parallel Type	12P416S
Rated Capacity Per Pack	104.499kWh
Pack Number	12*4
System Rated Energy Capacity	5.015MWh
Rated DC Voltage	1331.2V
Rated DC Voltage Range	1164.8~1497.6V
General Data	
DOD	95%
Noise	≤75dB
Protection Degree	IP55
Cooling Method	Liquid Cooling/ Heating
Fire Suppression System	Aerosol + Water Fire-Fighting + Explosion-Proof Fan (Combustible Gas)
Operating Temperature Range	-30°C ~ 50°C (> 45°C Derating)
Relative Humidity	0% ~ 95%RH
Max.Working Altitude	2000m
Display	Web
Com Interfaces	RS485/CAN/Ethernet
Dimensions (L*W*H)	6058*2438*2896mm
Weight	42 T approx
Standards&Certification	UL9540A (Pack & Cluster & Container) IEC 62477(Cluster & Container) IEC 62933(Container) IEC 61000-6-2/4 IEC 62619 IEC 63056 Compliance of EU2023/1542