

# ESS 160 kW / 200 kWh

Sodium-Ion Liquid-Cooled Battery Cabinet



## FEATURES



### High-Voltage Architecture

160 kW / 200 kWh high-voltage system for 1500 V DC platforms.



### Liquid-Cooled Thermal Control

High-capacity liquid cooling maintains stable cell temperature.



### Advanced BMS with cabinet EMS

Real-time cell monitoring, alarms and communications for system integration.



### High conversion efficiency


Optimized DC-AC conversion for peak-shaving, backup and PV-coupled use.

DC Parameters	
Type	Sodium-ion Prismatic Cell
System grouping method	1P416S
Rated energy	199.68kWh
Rated capacity	160Ah
Rated voltage	1248V
Recommended operating voltage	DC 748.8~1435.2V
Battery Management System (BMS)	
Configuration	Two-level BMS: Battery cell-level control+Battery cabinet-level control + EMS
AC Parameters	
Rated output power	160kW
Rated Current	231A
Rated Voltage	400V ac/3P+N+PE
Rated Frequency	50Hz/60Hz
Cooling System	
Configuration	6kW Liquid-cooled
System Parameter	
energy conversion efficiency	≥92%
Charge and discharge rate	≤0.8P, constant power
Number of cycles	≥8000 cycles
protection grade	IP54
Cooling method	Liquid cooling
operation temperature	-30~60°C (derating above 45°C)
relative humidity	0~95%RH, non-condensing
Working altitude	≤2000m (derating above 2000m)
Dimensions (W*D*H)	1600*1375*2450mm
Total weight	About 3200kg
Fire Protection System	PACK-level + cluster-level aerosol
communication interface	Ethernet/RS485
Compliant with standards	GB/T36276, GB/T34120, GB/T34131, UN38.3, IEC62619, UL1973, UL9540, CE-EMC
Battery Control System (BCS)	
Configuration	Coordinates BMS, PCS and all sub-devices; interfaces with upper-level SCS/EMS.

# ZYNAVEX+

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