

ESS 100 kW / 115 kWh

Sodium-Ion Liquid-Cooled Battery Cabinet



FEATURES



High-Voltage Architecture

A compact 100 kW / 115 kWh system with a 720 V sodium-ion platform for peak shaving, load shifting and backup support.



Active Thermal Management

Integrated liquid cooling maintains stable cell temperature for reliable operation.



Dual-Layer BMS Control

Real-time monitoring of battery level & health, alarms and remote communication via CAN/RS485/Ethernet.



Safety & Scalability


Multi-level fire protection and multi-cabinet parallel configuration for project expansion.

DC Parameters	
Type	Sodium-ion Prismatic Cell
System grouping method	1P240S
Rated energy	115.20kWh
Rated capacity	160Ah
Rated voltage	720V
Recommended operating voltage	DC 360~912V
Battery Management System (BMS)	
Configuration	Two-level BMS: Battery cell-level control+Battery cabinet-level control
AC Parameters	
Rated output power	100kW
AC maximum power	110kW (lasting for 1min)
Rated Voltage	400V ac/3P+N+PE
Rated Frequency	50Hz/60Hz
AC current distortion rate	≤3%
Cooling System	
Configuration	5kW Liquid-cooled air conditioner
System Parameter	
energy conversion efficiency	≥86%
Charge and discharge rate	≤1P
Number of cycles	≥8000 times
protection grade	IP55
Cooling method	Active liquid cooling
operation temperature	-25~55°C
relative humidity	0~95%RH
Working altitude	≤2000m
Dimensions (W*D*H)	1400*1350*2100mm
Total weight	About 2350kg
Fire Protection System	PACK level detection + space level perfluorohexanone
communication interface	Ethernet/RS485
Compliant with standards	GB/T36276, 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.

*Specifications may change without notice as part of continuous improvement.
*Images are illustrative; actual product/configuration may vary.

ZYNAVEX+

Zynavex Sdn. Bhd.

 +6-011-66368966

 <https://www.zynavex.com>

 support@zynavex.com
