

# ZYNAVEX+

## NFPP C&I Series Energy Storage Solution

### ZXES200

160 kW / 200 kWh Liquid-Cooled Battery System



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#### 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-Level 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.

Technical Parameter	ZXES200
<b>DC Parameters</b>	
Cell Specification	3.0V 160Ah
Pack Configuration	1P52S per Pack
String Configuration	1P416S
Number of Racks / Clusters	8 Packs in Series
Rated Energy	199.68kWh
Rated Capacity	160Ah
Nominal Voltage	1248V
Operating Voltage	748.8 - 1435.2V
Charge / Discharge Rate	≤0.8P / 0.8P
<b>AC Parameters</b>	
Rated Output Power	160kW
Maximum AC Power	176kW
Apparent Power	160kVA
Rated Grid Voltage	400Vac, 3P+N+PE
Rated Grid Frequency	50/60Hz
Output Harmonic (THDi)	≤3%
Power Factor	> 0.99
Power Factor Adjustable Range	-1 - +1
DC Voltage Range	748.8 - 1435.2V
Max DC Current	225A
Overload Capacity	1.1 times long-term 1.2 times 1min
<b>System Parameters</b>	
System Type	Liquid-Cooled Outdoor Cabinet
Battery Chemistry	NFPP Sodium-Ion
Design Life	10 years
Energy Conversion Efficiency	≥91%
Battery Management System (BMS)	Two-level BMS: Cell-Level + Cabinet-Level
EMS	Included
Fire Suppression System	PACK-Level + Cluster-Level Aerosol
Safety & Protection	Overvoltage / Overcurrent; Undervoltage / Undercurrent; Short Circuit; Power Limiting
Communication	Ethernet / RS485
Parallel Capability	Up to 4 Units + 1 Combiner
Cooling Method	Liquid Cooling
Ingress Protection	IP54
Operation Temperature	-30°C to +60°C
Storage Temperature	-20°C to +40°C
Relative Humidity	0 - 95% RH, Non-Condensing
Working Altitude	≤2000m, Derating Above 2000m
Noise	≤75dB
Dimensions (W x D x H)	1375 x 1600 x 2450mm
Total Weight	Approx. 3200kg
Cycle Life	≥8000 cycles @25°C, 0.5P/0.5P
Compliance & Standards	UN38.3, MSDS; IEC62619, UL1973, UL9540

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