

ZYNAVEX+

NFPP C&I Series Energy Storage Solution





ZXES115

100 kW / 115 kWh Liquid-Cooled Battery System



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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 status and health, alarms and remote communication via CAN/RS485/Ethernet.
-  **Safety & Scalability**
Multi-level fire protection and multi-cabinet parallel configuration for project expansion.

| Technical Parameter | ZXES115 |
|---------------------------------|---|
| DC Parameters | |
| Cell Specification | 3.0V 160Ah |
| Pack Configuration | 1P48S per Pack |
| String Configuration | 1P240S |
| Number of Racks / Clusters | 5 Packs in Series |
| Rated Energy | 115.20kWh |
| Rated Capacity | 160Ah |
| Nominal Voltage | 720V |
| Operating Voltage | 360 - 912V |
| Charge / Discharge Rate | ≤1P / 1P |
| AC Parameters | |
| Rated Output Power | 100kW |
| Maximum AC Power | 110kW |
| Apparent Power | 100kVA |
| Rated Grid Voltage | 400Vac, 3P+N+PE |
| Rated Grid Frequency | 50/60Hz |
| Output Harmonic (THDi) | ≤3% |
| Power Factor | -0.99 - +0.99 |
| Power Factor Adjustable Range | -0.99 - +0.99 |
| DC Voltage Range | 630 - 950V |
| Max DC Current | 190A |
| Overload Capacity | 1.1 times long-term 1.2 times 1min |
| System Parameters | |
| 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 Detection + Space-Level Perfluorohexanone |
| 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 | IP55 |
| Operation Temperature | -25°C to +55°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) | 1400 x 1350 x 2100mm |
| Total Weight | Approx. 2350kg |
| Cycle Life | ≥8000 cycles @25°C, 0.5P/0.5P |
| Compliance & Standards | UN38.3, MSDS; IEC62619, UL1973, UL9540 |

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