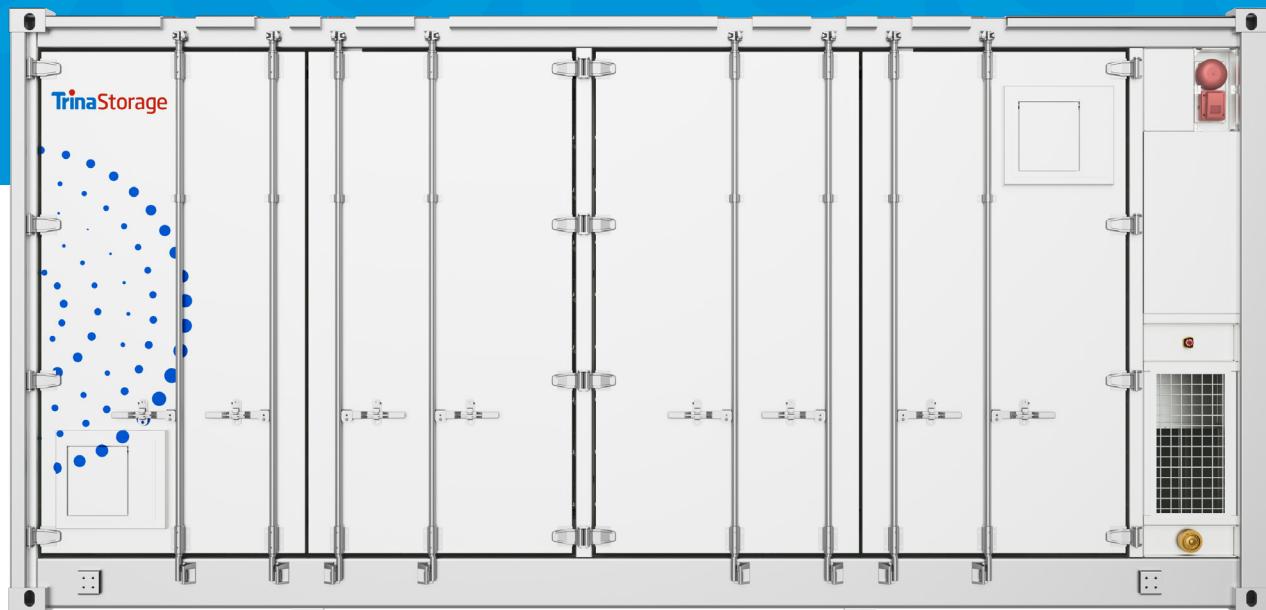


Storage

Elementa 2 Pro

Elementa 2 Pro

5.015 MWh | 12000 cycles | 314 Ah Ultra-Performance Battery Cell



Enhanced Efficiency

- Ultra-long lifecycle and high-performance 314Ah cell, delivering up to 12,000 cycles
- Flexible installation options, supporting side-by-side and back-to-back layouts, increasing site energy density by 12%
- Advanced intelligent temperature control, maintaining cell ΔT within $\leq 2.5^{\circ}\text{C}$ using hybrid air-liquid cooling technology, reducing average auxiliary power consumption by 30% in low-temperature conditions

Intelligent Design

- 1:1 Negative Temperature Coefficient (NTC) monitoring with millisecond-level response can ensure early warning and effective protection
- Supporting master-slave architecture, enhancing system performance for multi-cabinet parallel configuration
- One-click upgrades and real-time monitoring improve O&M efficiency

Comprehensive Safety

- EV-grade battery cells undergo rigorous abuse testing to ensure intrinsic safety
- Electrical protection with an emergency stop button, enabling multi-layered safety linkage across the cabinet, PCS, and EMS
- Multi zone monitoring enables precise measurement of internal temperatures, achieving accurate thermal management and protection
- Sandwich-type composite wall and multi-detector design, compliant with NFPA 855, 68, and 69 standards

Improved Flexibility

- High-temperature refrigerant technology ensures full power output even at temperatures exceeding 50°C
- Noise level as low as 70dB, improving suitability for sites under strict noise limitation with a 12.5% reduction compared to industry benchmarks
- IP67-rated modules and an IP55-rated cabinet with C5-level anti - corrosion coating and IEEE693 high level seismic standards, ensuring durability in diverse and challenging environments

BATTERY PARAMETERS

Cell Type	3.2V, 314Ah
Battery Configuration	416S12P
Nominal Capacity	5015 kWh
Typical Operational Duration	2-8 hours
Nominal Voltage Range	1123.2V - 1497.6 V

SYSTEM PARAMETERS

Dimensions (W*H*D)	6058*2896*2438 mm (Standard 20ft High Cube Container)
Weight	40.5 T
Degree of Protection	IP55-Container IP67-Module
Operating Ambient Temperature	-30°C - 55°C (>50°C Derating)
Altitude	≤4000 m
Operation Humidity Range	0 - 100% (Non-condensing)
Cooling Mode	Liquid Cooling
Fire Safety	Dry pipe, heat and smoke sensors, active ventilation system with hydrogen gas sensor (Carbon Monoxide Sensor Optional), automatic aerosol-based fire suppression system, fire resistant enclosure (2h Optional), deflagration panel (Optional)
Anti-corrosion Design	C4 (C5 Optional)
Noise	70dB (25°C) 65dB (Optional)
Communication protocols	CAN/Modbus TCP
Standard	IEC61000-6-2/4, IEC62619, IEC62477-1, IEC62933-5-2, UL1973, UL9540, UL9540A, NFPA68&69 (Optional) etc.

Storage

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