



CSF512V50-HV High-Voltage Energy Storage System

Technical Specifications

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Core Product Parameters

Nominal Voltage: 512VDC $\pm 2\%$ tolerance
Capacity Configuration: 50Ah @ 25°C ambient temperature
Energy Density: ≥ 135 Wh/kg (cell level)
Cycle Life: 6,000 cycles @ 80% DoD
Protection Class: IP54 enclosure rating

Performance Characteristics

Thermal Management System

Equipped with intelligent liquid cooling that maintains optimal operating temperature between -20°C to 55°C. The system automatically adjusts coolant flow rates based on real-time current loads - like a cardiovascular system for battery packs.

Safety Compliance

CE certified electrical isolation monitoring
UL1973 compliant cell stacking configuration
Automatic fire suppression with aerosol technology

Commercial Terms & Logistics

Current MOQ starts at $\geq 45,000$ /set with 10-day lead time from Hangzhou warehouse. The standard logistics package includes shock-absorbent packaging and GPS-tracked transportation. Want to know a secret? The shipping crates double as temporary installation platforms - our engineers call it "two-phase packaging technology".

Application Scenarios

Commercial & Industrial peak shaving
Microgrid frequency regulation
EV fast-charging buffer storage

Maintenance & Warranty

The 3-year warranty covers all BMS components and structural integrity. For maintenance, did you know the

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modular design allows hot-swapping individual 2.5kWh submodules? It's like changing batteries in a flashlight - just scaled up for industrial use.

Web: <https://www.sphoryzont.edu.pl>