



# CSF512V50-HV High-Voltage Energy Storage System Technical Specifications

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### Core Product Parameters

- Nominal Voltage: 512VDC +-2% tolerance
- Capacity Configuration: 50Ah @ 25° ambient temperature
- Energy Density:  $\geq 135$ 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° to 55°. 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 JPY45,000/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.

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