NOVA AC/DC Integrated Energy **Storage Container**

NOVA S750-1527-EN

750kW/1527kWh

Powered by CATL's 306Ah long-cycle batteries, the energy storage container supports a maximum 750kW AC 400V output, meeting the needs of projects of various scales.

High Safety



- Uses CATL's high thermal stability LFP batteries with IP67 battery packs
- Features energy storage battery health management, supporting life prediction, health assessment, and safety warnings
- Four-level fire safety protection ("monitoring, early warning, alarm, execution") for cells, packs, and containers

High Efficiency



- CATL long-life cells with ≥12,000 cycles
- Supports fast frequency modulation response, full-link response

Intelligence



- Equipped with CESS (Intelligent Energy Management System), enabling rapid upgrading of "photovoltaic-storage-charginginspection" microgrid technologies and solutions
- Al algorithms deeply integrate grid power, photovoltaic power, local grid tariff mechanisms, system operation efficiency ranges, and real-time load demands to enhance system benefits
- (OTA (Over-The-Air) remote diagnosis and online operation maintenance

Flexible Expansion



- Uses AC400V output for flexible access to low-voltage transformers and various AC loads
- Supports multi-energy access (photovoltaic, wind power, diesel generation) and output to multiple loads (charging (stations, industrial parks, commercial CBDs, etc.)

Application Scenarios











Testing and Certification: UN38.3, UL1973, IEC62619, UL9540A, IEC62477, IEC61000, EN50549





Appearance Configuration	
Appearance	silk-printed (customizable)
Dimensions	20-foot container
Weight	TBD
Electrical Parameters	
Input/Output Power	Input: AC 750kW; Output: AC 750kW
DC Working Voltage Range	650–950V (grid-connected); 650–950V (off-grid)
AC Rated Output Voltage	400VAC, -20%~+15% (grid-connected); AC400V (off-grid)
Unbalance Degree	100%
Total Harmonic Voltage Distortion	<3% (load >30%, grid-connected); <1.5% (resistive load, off-grid)
Rated Output Frequency	50/60Hz
Scenario & Safety	
Cooling Type	Liquid cooling
Protection Level	Whole machine ≥IP54, pack ≥IP67
Temperature & Humidity Range	-30 ~ 50°C/0 ~ 95%
Altitude	4000m (>2000m derated operation)
Noise	80±3dB
Energy Storage Battery Parameters	
Battery Type	LFP
Energy Storage Capacity	1527kWh
Charge/Discharge Rate	0.5P
Rated Voltage	832V
Battery Voltage	650 ~ 949V
Range Cycle Life	12000 Cycles 25℃, 0.5P, @70%SOH