

V-Bala-250kW/522kWh Liquid-cooled Energy Storage Cabinet



- ✓ Integrated Cabinet: Integrates 522kWh Battery, 2 Units of 125kW Power Conversion System (PCS), Battery Management System (BMS) and Thermal Control System
- ✓ 400V AC Output, Parallel Capacity Expansion on AC Side, Flexible Adjustable Capacity, Support Rapid Deployment
- System AC Efficiency $\geq 90\%$, 100% Depth of Discharge, Extremely Low Levelized Cost of Storage (LCOS)
- ✓ Full Liquid-cooled Battery Design: Cell Temperature $\leq 35^{\circ}\text{C}$, Cell Temperature Difference $\leq 3^{\circ}\text{C}$
- ✓ Multi-level Fire Protection: Gas Detection, Emergency Exhaust, Aerosol + Water-based Fire Extinguishing
- ✓ IP55 Ingress Protection Rating, Maximum C5 Corrosion Resistance Class, Adapt to Harsh Working Conditions
- ✓ Modular Battery Pack / PCS Design, One PCS per String, Energy Density is About 20% Higher Than Mainstream Industrial & Commercial Energy Storage Systems

Technical Indicators	Product Model: VN-CE0522L-L3P Product Name: V-Bala-250kW/522kWh
Chemistry	LFP
Configuration	2*1P260S
Nameplate Energy(kWh)	522
Cell Capacity(Ah)	314
C-Rate	$\leq 0.5\text{P}$
Rated Voltage(V)	832
Rated Power (kw)	250 (2*125kW)
Max Power (kW)	300 (2*150kW)
Output Voltage (V)	400V (-15%~+10%)
Power Factor	>0.99 (Adjustable -1~1)
Frequency(Hz)	50/60
Cooling Method	Liquid cooling (battery) / Air cooling (PCS)
FSS Configuration	Gas detection, emergency exhaust, aerosol & water fire suppression
Operating Temperature(C)	-35~55 (Derating above 45)
Operating Humidity	0~95% (No condensing)
Charge-discharge Switching Time(ms)	<100
Noise Level (db)	≤ 80
Anti-corrosion Level	C5
Altitude (m)	$\leq 2000\text{m}$
IP	IP55
Weight (kg)	4500
Dimension(L XWXH) (mm)	$1850 \times 1350 \times 2350$
Certifications	CQC, LVRT/HVRT, IEC 62477, IEC 61000, EN 50549-1, EN 50549-2, UN38.3

Specifications and models are subject to change without prior notice.

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