

V-Bala-125kW/261kWh Liquid-cooled Energy Storage Cabinet



- ✓ High-efficiency Liquid-cooled Temperature Control: Cell Temperature Difference $\leq 3^{\circ}\text{C}$; Wide Operating Temperature Range from -30°C to 50°C ; Thermal Runaway Suppression
- ✓ Millisecond-level Response: Equipped with High-performance EMS and Silicon Carbide (SiC) PCS, the Response Time is as Low as Millisecond Level; 125kW High Power Density PCS Maximizes VPP Potential; Independent Off-grid Operation Capability Enhances VPP Grid Support
- ✓ High Safety Redundancy Design: Triple Fire Protection + Intelligent Monitoring, Full Safety Level; Modular Design Enables Fast Fault Location and Isolation, Single Cabinet Fault Does Not Affect Overall VPP Operation, Improving System Availability
- ✓ Flexible Capacity Expansion & Rapid Deployment: 400V AC Output, Supports Multi-unit Parallel Connection to Meet VPP Resource Aggregation Requirements of Different Scales; Integrated Design, Plug-and-play, Greatly Shortens Installation and Commissioning Period, Reduces VPP Project Implementation Cost; Can Be Flexibly Combined with Distributed PV, Industrial & Commercial Loads, EV Chargers, etc., to Support VPP Multi-scenario Coordinated Scheduling

Technical Specifications	Product Model: VN-261kWh-2h-IEC Product Name: V-Bala-125kW/261kWh
Cell Chemistry	LFP
System Configuration	1P260S
Rated Energy(kWh)	261
Cell Capacity(Ah)	314
Charge-discharge Rate	$\leq 0.5\text{P}$
Rated Voltage(V)	832
Rated Output Power(kW)	125
Max Output Power(kW)	156
AC Access Mode	Three-phase Four-wire, 3/N/PE
Output Voltage(V)	AC 400V (Voltage Fluctuation Range: $-15\%\sim+10\%$)
Power Factor	$-0.98 \sim +0.98$
Operating Frequency(Hz)	$50/60 \pm 2.5\text{Hz}$
Cooling Method	Liquid Cooling (Battery) / Air Cooling (PCS)
Fire Protection System	Gas Detection, Emergency Exhaust, Aerosol + Water-based Fire Extinguishing
Operating Ambient Temperature($^{\circ}\text{C}$)	$-35\sim 55$ ($> 45^{\circ}\text{C}$ Derated Operation)
Operating Ambient Humidity	$0\%\sim 95\%$ (Non-condensing)
Charge-discharge Switching Time(ms)	< 100
Operating Noise(dB)	≤ 75
Corrosion Resistance Class	C5
Applicable Altitude(m)	$\leq 2000\text{m}$
Ingress Protection Rating	IP55
Total System Weight(kg)	约2700
Dimensions(W*D*H) (mm)	$1100 \times 1350 \times 2300$
Compliance Certifications	IEC62619:2022、IEC60730、IEC62477-1、 EN61000-6-2/6-4、UL9540A、IEC62933-5-2、IEC60529、UN38.3、UN3480

*Specifications and models are subject to change without prior notice.

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