

C&I ESS Solution

VED Series — Liquid cooled



Features and Advantages

High performance

- C4 corrosion resistant rating
- Wide temperature range: -20~55°C suitable for severe cold and hot weather.

Safe and Reliable

- High-quality LFP batteries.
- Equipped with a comprehensive fire protection system including smoke, heat, and water detection + suppression (aerosol).

High Economy and Efficiency

- Supports long-term backup power
- Supports peak-valley arbitrage.

High intelligence

- Supports virtual power plants
- Configure local control and remote monitoring platform.
- Real-time collection and monitoring of each energy storage component status information.

VED 500k-1044kWh-L

Technical Parameters



Model	VED 500k-1044kWh-L		VED 1MW-2MWh-L	
Battery Side				
Battery Type	LFP			
Module Energy	52.2kWh			
Number of Battery Module	20Modules		40Modules	
Total Energy	1044kWh		2088kWh	
Operating Voltage Range	728-936V			
Max. Charge/Discharge Current	0.5P			
Module Dimension(W*D*H)/Weight	1140*790*244mm/330±10kg			
AC Side(On Grid)				
Rated AC Power	500kW		1000kW	
Max.AC Power	550kW		1100kW	
Rated Grid Output Current	720A		1440A	
Rated Grid Voltage	400V(-15%~+10%), 3W+PE/3W+N+PE			
Rated Frequency	50/60Hz(±5Hz)			
THDi	<3%(rated power)			
Power Factor	-1(leading) ~ +1(lagging)			
General				
Cooling Concept	Liquid Cooling(Battery Cabinet) Smart Cooling(PCS)			
Noise	<78dB			
Humidity Range(No condensation)	0-95%			
Altitude	3000m (>2000m Derating)			
Isolation Mode	Isolation transformer			
Fire Protection	Aerosol			
Communication	RS485/CAN/Ethernet			
Temperature Range	-30~60°C(derating above 45°C)(PCS) -20°C to 55°C(Battery Cabinet)			
Anti-corrosion Grade	C4(C5 Optional)			
IP Rating	IP55			
Dimension(W*D*H)	1350*1450*2300mm(PCS)		1300*1000*2300mm(Battery Cabinet)	
Weight	Approx. 2200kg(PCS)		Approx. 2075kg(Battery Cabinet)	
Standard	VDE-AR-N 4110/CE-EMC/IEC62619/IEC 62477/IEC 63056 IEC 61000/IEC 62477-1:2012/IEC 61727/IEC 62116/GB/T 34120; EN 61000-6-1/EN 61000-6-2/EN 61000-6-3, GB/T 34133			
Transport Testing Requirement	UN38.3			

