

C&I ESS Solution

VED Series — Air-cooled



Features and Advantages



Safer

- Flood, smoke and temperature detection systems, active exhaust and fire alarm batteries systems, aerosol fire extinguishing.
- LFP Battery, more than 6000 charging cycles, longer service life.



High performance

- Wide temperature range: -20-55°C suitable for severe cold and hot weather.
- IP55 protection level, outdoor use.
- No additional DC combiner cabinet or photovoltaic combiner cabinet is required; the PCS cabinet has reserved interfaces.



High stability

- Using pure off-grid and parallel-off-grid (parallel-off-grid handover time less than 20ms), in parallel grid scenarios.



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-F

Technical Parameters



Model	VED 500K-1044kWh-F		VED 1MW-2MWh-F	VED 1.5MW-3MWh-F
Battery Side				
Battery Type	LFP			
Module Energy	20.09kWh			
Number of Battery Module	52 Modules	104 Modules	156 Modules	
Total Energy	1044kWh	2088kWh	3132kWh	
Operating Voltage Range	728-936V			
Max. Charge/Discharge Current	0.5P			
Module Dimension(W*D*H)/Weight	483*941*261mm/147kg			
AC Side (On Grid)				
Rated AC Power	500kW	500kW*2	500kW*3	
Max. AC Power	550kW	550kW*2	550kW*3	
Rated AC Current	720A	720A*2	720A*3	
Rated AC Voltage	400V,3W+N+PE			
Rated Frequency	50/60Hz±5Hz			
THDi	<3% (rated power)			
PF Adjustable Range	-1 leading~-+1 lagging			
AC Side (Off Grid)				
Rated AC Voltage	400V			
Rated AC Frequency	50/60Hz			
THDi	<3% (linear load)			
Overload Capacity	110%, normal operation; 120%, 1 minute			
General				
Cooling Concept	Air Conditioning(Battery Cabinet)		Smart Cooling(PCS)	
Noise	<78dB			
Humidity Range(No condensation)	0-95%			
Altitude	3000m(>2000m Derating)			
Isolation Mode	Isolation transformer			
Fire Protection	Aerosol, Perfluoro(optional)			
Communication	RS485/CAN/Ethernet			
Temperature Range	-30~60℃(derating above 45℃)(PCS)		-20℃ to 55℃(Battery Cabinet)	
IP Rating	IP55			
Dimension(W*D*H)	1350*1450*2300mm(PCS)	1200*1523*2300mm(Battery Cabinet)		
Weight	Approx. 2200kg(PCS)	Approx. 2914kg(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			

