

Utility-Scale ESS Solution

VES Series



Features and Advantages



Safe and Reliable

- Utilizing lithium iron phosphate batteries with abuilt-in multi-level protection system ensuresexceptional thermal stability.
- The system integrates an advanced fire protection system and achieves IP55 protection rating.



High Economy and Efficiency

- The optimized thermal management system extends product lifespan, lowers operating costs.and delivers a higher return on investment throughout the product lifecycle.



Plug-and-Play, Rapid Deployment

- Integrated design, PCS、BMS、EMS Integrated Full container shipping and installation.
- Significantly reduces installation time andcommissioning costs.



High intelligence

- Supports real-time online monitoring of system status.

VES 1MW-2MWh-F2

Technical Parameters



Model	VES 1MW-2MWh-F2
Battery Side	
Battery Type	LFP
Cell Specifications	314Ah/3.2V
Battery Module Grouping Method	1P18S
Battery Module Capacity	18.08kWh
Battery Cluster Grouping Method	1P252S
Battery Cluster Capacity	253kWh
Battery Stack Grouping Method	8P252S
Battery Stack Capacity	2025kWh
Battery Voltage Range	706-908V
Rated Charge and Discharge Rate	0.5P/0.5P
AC Side(On Grid)	
AC Side Rated Power	125*8 kW
Rated Voltage	400Vac
Rated Frequency	50/60Hz(±5Hz)
Rated Current	1443A
Power Factor	0.99/-1~1
Output THDi	<3%
General	
Cooling Method	Air Conditioning
Fire Protection Configuration	Combustible gas detection/explosion-proof exhaust/gas fire fighting/water fire fighting
Noise	<70dB (at 1m)
Anti-corrosion Level	C4 (C5 optional)
Protection Level	IP55
Altitude	3000m (>2000m derating)
Temperature Range	-30°C~50°C
Humidity Range	0-95% (no condensation)
Communication	RS485/CAN2.0/Dry contact
Certification	IEC62619, GB/T36276, EN50549-2, VDE4110, VDE4120, G99, IEC62477/61000, etc.
Dimension(W*D*H)	6058*2438*2896mm
Total System Weight	Approx. 20t

