YOUR SAFE ENERGY

LIQUID COOLED BATTERY ALL-IN-ONE C&I BESS



Features and Advantages

Safety Technology

- A+ grade lithium iron phosphate
- The system is configured with a multi-level fuse protection
- Built-in aerosol fire extinguishing systems at the package and rack levels

Easy to Install and Use

- Highly integrated for ease of transportation, installation and deployment
- Modular design with flexible system capacity configuration

More Reliable

- The system is rigorously designed and tested to operate stably under various conditions
- Equipped with protections against overcharge over-discharge, and over-temperature to prevent accidents

Energy Management System

- Emergency power supply
- Peak shaving
- Demand mitigation
- Self-consumption
- Micro-grids
- Price arbitrage

System Technical Parameters

Model	MV500-1044L-01	MV500-1044L-01T	MV500-1044L-01TS
Battery Data			
Nominal Energy	1044.9kWh		
Nominal Voltage	832V		
Battery Model	SC52G05-314		
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)		
Cycle Life	≥8000 cycles @25°C, 0.5P/0.5P		
Cell Specification	3.2V / 314Ah		
Battery Pack Energy	52.2kWh		
Number of Clusters	4		
Cluster Configuration	4P260S		
Operating Voltage	728V-949V		
Rated Charging Power	0.5P		
Rated Discharging Power	0.5P		
AC Side			
Rated Voltage	3W+N+PE, 230/400Vac; 3W+PE, 400Vac		
Rated Current	180A*4		
Maximum Continuous Current	198A*4		
Rated Active Power	500kW		
Rated Apparent Power	500kVA		
Maximum Active Power	550kW		
Maximum Apparent Power	550kVA		
Grid Frequency	50Hz/60Hz		
Power Factor	-1 ~ +1		
General			
Isolation Method	Non-isolated	Isolation transformer (optional)	
Ambient Temperature Range	-25°C~+60°C (derating above 45°C)		
Ingress Protection	IP54, C4 corrosion protection		
Altitude Range	2000m (>2000m derating)		
Noise	<80dB		
Dimension(W×D×H)	2991 x 2438 x 2896mm		
Weight	Approximately 11700kg	Approximately 13000kg	Approximately 13100kg
Cooling Mode	Intelligent liquid cooling		
Overload Capability	Constant Operation@110%		
Communication Port	RS485/CAN2.0/Dry contact		
Communication Protocol	Ethernet/Modbus-RTU; Modbus-TCP		