SEASINE

Air-cooled integrated industrial and commercial energy storage cabinet

MES-C514

Multi-layered security protection

Battery cells: Smart battery cells with AI-based health management, cell-level monitoring, and safety control at the source
Electrical: Multi-level overcurrent protection at package level, cluster level, PCS level, and compartment level, providing graded and precise protection.
Structure: multi-compartment design with compartmentalized isolation and compartmentalized fire protection, preventing the spread of risks
Fire Protection: Triple-layer fire protection design, precise monitoring, multi-dimensional early warning, and timely fire response to eliminate flash fires.

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Modular multi-scenario applications

Multi-machine: Seamless side-by-side parallel operation across multiple machines, supporting 4/6/8-hour system applications
Off-grid: One cluster, one management, multi-unit parallel/off-grid solution
Footprint: Each cabinet occupies 1.6 m²; equipment can be serviced on a single side, significantly reducing the total construction footprint.
Structure: multi-compartment design with compartmentalized isolation and compartmentalized fire protection, preventing the spread of risks
Scenario: EMS supports peak-valley arbitrage, dynamic capacity expansion, demand-side control, demand response, and other functions.
Multi-scenario applications



Digital O&M Management

Efficiency: Intelligent energy scheduling strategy; maximum system cyclic efficiency ≥ 86%
Convenience: remotely issue control policies, monitor equipment operations, and conveniently manage work orders,
Multi-dimensional Reports
Safety: The online operations and maintenance team provides real-time monitoring and promptly issues alerts for equipment fault signals.

Performance Specifications Table

model	MES-C514
AC side	
voltage range(V)	AC400V±15% 50/60Hz
maximum current(A)	203A
Total Harmonic Distortion of Current	<3%
power factor	-0.9 to 0.9 (adjustable)
Rated charge/discharge power (kW)	125
Maximum charge/discharge power (kW)	138
Battery side	
Battery type	CELL: LFP-314Ah
System series-parallel count	2P256S
rated voltage(V)	819.2
Rated capacity (KWh)	514.4576
Recommended Scope of SOC Application	3%~95%
Number of cycles	8,000 (100% charge-discharge cycle, degradation to 70%)
productiveness	
Maximum system efficiency	>86%
function	
Peak shaving and valley filling	possess
Remote Scheduling	possess
essential parameter	
Dimensions (Width × Depth × Height)	1660*1923*2400 mm (with air conditioning)
weight(KG)	4500KG
Ambient temperature range	-20~50°C
Maximum operating altitude (meters)	≤5000 (derating to ≥2000)
levels of protection	IP54
cooling-down method	forced air cooling
show	upper monitor
communication mode	TCP/IP

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