

Energy Storage System

EnerCube-250KW/516KWh-M Outdoor Cabinet Energy Storage System



High Safety



- Standardized cabinets realize partition safety isolation of energy storage system, active safety monitoring and early warning design, and Pack-level immersion fire technology to ensure the safety and control of the system;
- Efficient thermal management design, hierarchical linkage protection, to ensure the safe and stable operation of products;

Efficient & Flexible



- Integrated design, highly integrated; Decentralized deployment and centralized scheduling;
- Compact structure, small footprint, easy to install operation and maintenance;
- IP54 protection grade, stronger environmental adaptability;

Highly Integrated



- Standardized design reduces operation and maintenance costs, standardized production achieves rapid delivery, and reduces overall life cycle costs;
- High-efficiency balancing BMS: single-group string design + high-efficiency balancing technology;
- High-performance optical storage all-in-one: support load, battery, power grid or diesel generator, photovoltaic simultaneously;

Economical & Friendly



- Multi-capability of one machine: energy storage mode, solve the small power supply, and off-grid uninterrupted power supply, dynamic capacity expansion, peak cutting and valley filling optimization power mode;
- The energy storage system is prefabricated in the factory to reduce the cost of on-site installation;
- Maximize the use of green energy and save money on electricity bills.

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Performance Parameter

Model	EnerCube-250KW516KWh-M	
Battery parameter		
Cell type	LFP 280Ah	
Battery Pack configuration	14.336KWh/1P16S	
Battery system configuration	(172KWh/1P192S) *3	
Battery voltage range	538~691V	
Temperature measurement quantity	72*3	
Charging/discharge ratio	≤0.5C	
The depth of discharge	90%DOD	
Cycles	> 8000	
Maximum battery system efficiency	≥96%	
AC parameter		
Rated AC power	250KW	
Maximum AC power	275KW	
Rated voltage	400V (-20%~+15%)	
Rated current	360A	
Rated frequency	50/60Hz	
DC current component	<0.5%I _{pn}	
AC current distortion rate	<3%	
Power factor	-1~+1	
Overload capacity	110% long term	
Alternating current system	Three-phase four-wire + ground wire (3W+N+PE)	
Isolation transformer	Yes	
Common parameter		
	Battery outdoor cabinet	PCS outdoor cabinet
Protection class	IP55	IP54
Fire protection system	Perfluorohexone + aerosol	--
Operating temperature range	-30℃ to 55℃	-30℃ to 55℃
Cooling mode	Air conditioning cooling	Intelligent air cooling
Size W*D*H (mm)	(1200 * 1100 * 2350) *3	1500 * 1100 * 2350
Weight (kg)	2200*3	2000
Communication mode	CAN, RS485	RS485, TCP/IP
Display	Touch LCD display	Touch LCD display
Relative humidity	5~95%RH, no condensation	5~95%RH, no condensation
Highest altitude	4500m (> 3000 Derating required)	4500m (> 3000 Derating required)
Noise	<70dB	< 70dB