



Liquid Cooled Integrated Cabinet Energy Storage System

M125G261A

M125G261A is a commercial and industrial energy storage product developed for both grid-connected and off-grid application scenarios. The product highly integrates Li-FePO4 battery, BMS, PCS, EMS, fire protection system, liquid cooling system. Innovative integrated design, small volume and large energy, provide customers with low-carbon and high-yield energy storage solutions.

High integration

- Highly integrated with energy storage unit, PCS, BMS, EMS, fire protection and temperature control systems.
- Covering an area of 1.35m² and a height of only 2.25m, leading in the industry.

High safety

- Three-level protection system, accurately monitoring short circuit, over-current, over-voltage, over-temperature and other abnormalities.
- Module, cluster level, and secondary fire protection, with two-level explosion-proof design for modules and cabinets.

High efficiency

- PCS uses the third generation semiconductor silicon carbide solution.
- Intelligent liquid cooling temperature control strategy to reduce power consumption.
- System conversion efficiency up to 90%.

Intelligent management

- Built-in EMS, with the TOPBAND cloud platform to achieve remote monitoring, remote setting, revenue calculation, remote upgrade, data analysis, cloud warning and other functions.
- Mobile APP function and local web function, convenient on-site operation and maintenance.

Model		M125G261A
System	Nominal capacity	314Ah
	Nominal energy	261kWh
	Usable energy	≥243kWh
	Nominal output power	125kW
	IP rating	IP55
	Operating temperature	-20~55℃
	Cooling mode	Liquid cooling
	Fire Protection	Aerosol
	Altitude	≤3000m(>2000m derate)
	Cycle life	≥8000 cycles
	Dimension(W*D*H)	1000*1350*2250mm
	Weight	≈2500kg
	Certification	IEC62619/CE/UN38.3
AC (on-grid)	Nominal voltage	400V
	Nominal output current	180A
	AC access method	3L+N+PE
	Allowable voltage range	400V(-20% ~ +15%)
	Grid frequency range	50Hz/60Hz±2.5Hz
	Power factor	-0.99~+0.99
	Charge/discharge conversion time	< 100ms
AC (off-grid)	AC off-grid voltage	AC400V
	AC voltage range	AC400V±3%
	AC off-grid frequency	50Hz/60Hz
	Off-grid output THDU	≤3% (linear load)
DC	Voltage range	728V ~ 949V
	DC Max. current	180A
	Rated DC power	125kW
	Battery type	Lithium iron phosphate (LiFePO4)
	PACK configuration	5*1P52S

Maximum Parallel in Off-Grid Mode 4 pcs, Maximum Parallel with STS (Static Transfer Switch) 2pcs