



Digitalized
Fully Liquid-Cooled

Enhanced Safety

Pipeline Fully liquid-cooled PACK and PCS with independent pipeline. Triple-level safety monitoring, and big data analysis for early warnings. Triple pressure release and explosion-proof design, with cabinet partition safety isolation. Independent UPS powered control system.

Intelligence

Multi-layered device systems with full-stack integrated management. Fully digital and networked with EMS energy management, AI-driven battery health management, and cloud-based big data lifecycle management.



Simplicity

All-in-one, highly modular, and standardized design. Flexible layout options, including side-by-side and back-to-back configurations. Direct parallel connection and grid integration with 380V AC output. Suitable for various applications such as Photovoltaic Energy charging, and microgrids.

Efficiency

Fully digitalized intelligent platform management with a 15-year long-life cycle for maximizing returns. Smart operations and maintenance to reduce costs and improve efficiency. System overall efficiency greater than 89%.

Techical Specification

Specifications DC Side		
ITEM & PARAMETER	M-BESS-100/233	M-BESS-125/261
Cell Configuration	LFP3.2V/280Ah	LFP3.2V/314Ah
Pack configuration	1P52S/46.59kWh	1P52S/52.24kWh
System Configuration	1P260S	
Voltage Range	728V DC~936V DC	
Nominal Capacity	233kWh	261kWh
Temperature Monitoring	Cell + Busbar	
Charge/Discharge Rate	≤0.5P	
AC Side(On-Grid)		
ITEM & PARAMETER	M-BESS-100/233	M-BESS-125/261
Rated Power	100kW	125kW
Max. Output Power	120kW	150kW
Rated Grid Voltage	400VAC (300~460)	
Rated Grid Frequency	50/60Hz	
Power Factor	-1~1	
AC Current Harmonics	<3% (Rated Output Power)	
Connection Method	Three-Phase Three-Wire/Three-Phase Four-Wire	
AC Side(Off-Grid)		
ITEM & PARAMETER	M-BESS-100/233	M-BESS-125/261
Rated Output Voltage	400V AC	
Rated Output Power	100kW	125kW
Rated Output Frequency	50Hz	
AC Voltage Harmonics	<3% (Linear Load)	
Overload Capacity	1.2 times last for 1 min	
System		
ITEM & PARAMETER	M-BESS-100/233	M-BESS-125/261
Max. Efficiency	≥89%	
DC Input	Load Switch/Fuse	
Fire Protection System	Perfluorohexanone/Water	
Feed In Method	bottom in	
Operating Environment Temperature	-25°C~50°C (Reduced rating above 45 °C)	
Operating Environment Humidity	10%RH~95%RH	
Altitude Requirements	≤4000m/>2500 Derating	
Ingress Protection	IP54	
Dimensions(H*W*D)	2400*1000*1520(mm)	
Weight	≈3T	
Communication Interface	RS485、Ethernet	
Cooling Method	Smart Liquid Cooling/Dual Pipeline	

