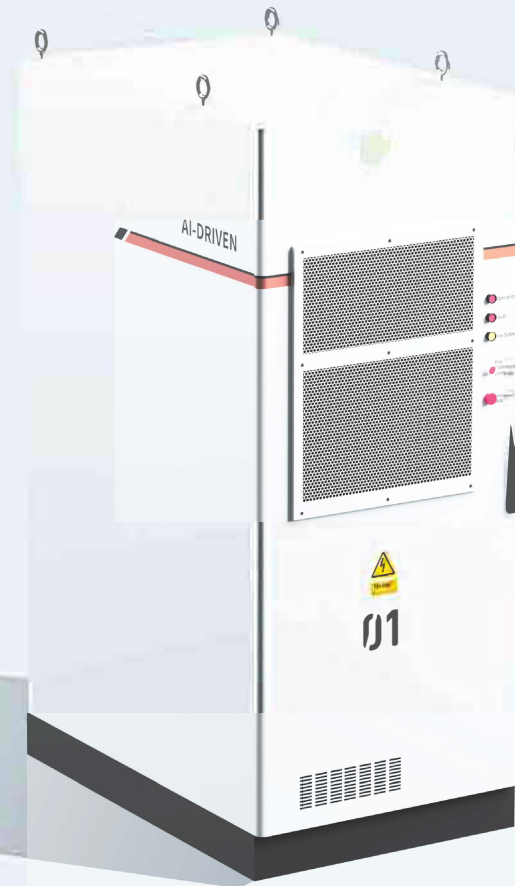


M-BESS-100/233 & 125/261

Distributed Fully Liquid-cooled Energy Storage Terminal



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%.

Technical 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℃~50℃ (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 | |

