

MF-SCS-261KWH-UE

LIQUID-COOLED ENERGY
STORAGE CABINET



MasterPower®

MF-SCS-261KWH-UE

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PRODUCT FEATURES

Intelligent Operation and Maintenance

- Modular energy block design, modular spare parts, more convenient maintenance.
- Data, video high-speed access to the cloud, remote active fire extinguishing, to achieve true unattended.
- Profits are clearer, data is more transparent, operation and maintenance is easier.

Extreme Safety

- Multi-layer fire protection, rapid suppression of thermal runaway.
- Top burst design to prevent the risk of explosion.
- Battery health AI management, early warning of failure battery.
- Noise reduction by 50%, suitable for large commercial buildings, parks and other areas.

Efficient and Flexible

- High energy density, no junction cabinet, saving floor space.
- PCAK/PCS modular design, reduce failure loss, high system availability.
- Single rack management, no inter rack circulation, improve the system energy charge/discharge capacity.
- Liquid cooling, longer system life, lower auxiliary power consumption.

Easy installation

- Modular products plug and play.
- Automatic SOC balancing between Packs.
- Equipment foundation no need excavation design, save the site civil construction cost.
- With the functions of parallel OFF-grid, backup power, three-phase imbalance management, etc.
- Suitable for various application scenarios.

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PRODUCT PARAMETER

AC Side

Rated Power	125 kW
Rated Grid Voltage	AC 400 V
Grid Voltage Range	AC 340 V ~ 460 V
Distribution Power Supply	AC 220 V
AC Access Method	Three-phase four wire system
Grid Frequency Range	50 ± 2.5 Hz
Grid Voltage Range	-15% ~ +15%
Total Harmonic Distortion Rate of Current	≤3% Full Load
Power Factor	-1 ~ +1

DC Side

Battery Cell Type	LFP 314 Ah
System Configuration	5 x 1P52S
Installed Energy Capacity	261.248 kWh
Voltage Range	DC 728 V ~ 923 V
Nominal Voltage	832 V
Rated DC Current	157 A
Maximum DC Current	179.4 A
Operating Temperature Range	0°C ~ 55°C (Charge) -30°C ~ 55°C

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System Specification

Overall Dimension (WxDxH)	1100 mm × 1400 mm × 2350 mm
Maximun Efficiency	Under Rated ≥ 90%
Operating Temperature	-30°C ~ +55°C
Allowable Relative Humidity	≤95% Free of Condensation
Noise	≤75 dB
Cooling Method	PCS:Air-cooling / Battery:Liquid Cooling
Protection Grade	IP55
Altitude	≤2000 m.a.s.l.
Weight	3 T
Communication Protocol	MODBUS TCP, IEC 104, 4G
Certification	IEC 62619 IEC 63056 IEC 62477-1 IEC 61000-6-2/4 UN38.3 CE-RED

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PRODUCT TOPOLOGY

