

ENERGY STORAGE SYSTEM

MF-SCS-128K-DC-UE



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.



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 power generation.
- Full liquid cooling, longer system life, lower auxiliary power consumption.



Extreme Safety

- Multi-layer fire protection, rapid suppression of thermal runaway.
- Bottom 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.



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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TECHNICAL SPECIFICATIONS

Technical Data

MF-SCS-128K-DC-UE

System Data

Cell Type	LFP 3.2V/314AH
Configuration	128S1P
Nameplate Capacity	125kWh
Maximum System Efficiency	≥88%
Depth of Discharge	100% DOD
Voltage Frequency	50Hz
Communication Interface	LAN
Number of Cycles	≥10000 Cycles
System Protection Level	IP55
Operating Temperature	-35°C~ 55°C
Operating Humidity	0%RH ~ 95%RH (No condensation)
Noise	< 70db
Dimensions (W * H * D)	1000*2270*1100(mm)
Altitude	≤2000m
Thermal Management Methods	Liquid cooling (battery+PCS)
Certification	IEC 62477、IEC 61000、 IEC 62619、VDE 4105、 UTE C15-712-1、CEI0-21 、EN 50549-2、UN38.3

PV Data

Maximum Photovoltaic Input Power	100kWp
Rated DC Input Voltage	720V
MPPT Voltage Range	150-850V
MPPT Number	4
Maximum input current of each MPPT	40A

On-grid Side Data

Rated Output Power	50kW
AC Rated Output Current	72.5A
Power Factor	-0.8~0.8
Grid Voltage	3L/N/PE 230/400V

Off-grid Side Data

Rated Output Power	50kW
Off-grid Peak Power	55kVA
Off-grid Peak Power /2min	60kVA
Fastest on/off Grid Switching Time	<10ms
Rated Output Voltage	3L/N/PE 230/400V