

MS-G230



Micro Grid System MS-G230 (100KW/230KWh)

- Multi fusion**
 EMS converter and BMS inside, power supply redundancy design, support black start function.
- Intelligent temperature control**
 Rated power operation, the maximum temperature of the Zbattery is less than 38°C.
- Scalable**
 Support the expansion of MPPT module, charging module, and diesel generator connection.
- Reliable**
 Intelligent BMS provides complete protection, proactive balancing solutions, effectively extending the cycling life of battery.
- Reliable**
 Lithium Iron Phosphate (LFP) Battery, system adopt an aerosol fire extinguishing solution.

Technical Data

Model	MS-G230
System Specification	
Nominal Output Power (KW)	100
AC Output Frequency and Voltage	50/60Hz; 380/400Vac
Grid Type	3L/N/PE
Energy (kWh)	230
Dimension (W × D × H,mm)	1700×1000×2500
Weight Appr. (kg)	2.8T
Battery Operating Voltage (V)	DC: 600~935 (grid on)/DC: 700 ~ 935(grid off)
Max. RTE	88%
System Communication	ETH/4G
System Operating temperature range (°C)	-30~45
Max. working altitude (m)	3000
IP Rating of Enclosure	IP55
Anti-corrosion grade	C5
System Certification	UN38.3, IEC62619, IEC61000, IEC62477
Installation Style	Floor-Mounted
Warranty	10 years
Converter Specification	
AC Output Rated Current (A)	152
MAX. AC Output Current (A)	167
MAX. number of parallel	12 PCS
Peak Power (off grid)	1.1 time of rated power
Power Factor	-1~1
THD	<3%
DC injection current	<0.5In
Display	LCD
Operating Temperature Range (°C)	-25~65(>45°C derating)
Relative Humidity	15% ~ 85% (No Condensing)
Dimension (W×D×H, mm)	506×772×310
Communication	CAN,RS485, ETH
Overvoltage protection	DC Type II / AC Type II
Protection level	Class 1
Safety EMC / Standard	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4
Grid Regulation	IEC62477, VDE4105, CEI 0-21, G98, G99
Max. Efficiency	97.6%
Battery Specification	
Battery Chemistry	LiFePO4
Battery Module Nominal Voltage (V)	51.2
Battery Module Energy (kWh)	14.3
Communication	CAN
Battery Module Dimension (W×D×H mm)	526×784.5×230
Battery Module Weight (kg)	100
Operating Temperature Range	Charge: 0~55°C / Discharge: -20°C~55°C
Cycle Life	≥6000(@25°C±2°C,0.5C/0.5C,70%EOL)
Battery Module Certification	IEC61000, IEC60730, IEC62619, IEC62477, UN38.3