

MS-G230



Mrico Grid System

MS-G230 (100KW/230KWh)



◆ Scalable

Support the expansion of MPPT module, charging module, and diesel generator connection

◆ Intelligent temperature control

Built-in air conditioner, the maximum temperature of the battery is less than 38°C

◆ Reliable

Positive Balance Intelligent BMS, providing complete protection, can effectively extend cycle life of battery packs

◆ Flexible

EMS and BMS integrated technology, AC/DC power supply redundancy design, support black start function

◆ Safer

Lithium Iron Phosphate (LFP) Battery, The battery pack and system adopt an aerosol fire extinguishing solution

Model	MS-G230
System Specification	
Nominal Output Power (KW)	100
AC Output Frequency and Voltage	50/60Hz; 3L/N/PE 380/400Vac
Grid Type	On grid/Off grid (500ms)
Energy Configuration (kWh)	230
Dimension (W x D x H,mm)	1700x1000x2500
Weight Appr. (kg)	2.8T
Battery Operating Voltage (V)	DC:600~935(on grid)/DC:700 ~ 935(off grid)
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-corrsion grade	C5
System Certification	UN38.3, IEC62619,IEC61000, IEC62477
Installation Style	Floor-Mounted
Warranty	10 years
Converter Technical Specification	
AC Output Rated Current (A)	152
MAX. AC Output Rated Current (A)	167
MAX.number of parallel	12 PCS
Peak Power (off grid)	1.5 time of rated power, 10s
Power Factor	-1~1
THD	<3%
DC injection current (mA)	<0.5In
Display	LCD
Operating Temperature Range (°C)	-25~65(>45°C derating)
Relative Humidity	15% ~ 85% (No Condensing)
Dimension (W x D x H,mm)	506x772x310
Converter Communication	CAN,RS485, ETH
Overvoltage protection	DC Type II / AC Type III
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 Technical Specification	
Battery Chemistry	LiFePO4
Battery Module Nominal Voltage (V)	51.2
Battery Module Energy (kWh)	14.3
BMS Communication	CAN
Battery Module Dimension(W*D*H mm)	526x784.5x230
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