MS-G230/MS-G215

Micro Grid System

MS-G230 (100KW/230KWh)

MS-G215 (100KW/215KWh)

◆ Multi fusion

EMS converter and BMS inside , power supply redundancy design, support black start function

◆ Intelligent temperature control

In full power operation, the maximum temperature of the battery is less than 35 ° C, and the temperature difference is less than 8 ° 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

◆ Safer

Lithium Iron Phosphate (LFP) Battery, system adopt an aerosol fire extinguishing solution

◆ High protection

1 hour flame retardant protection, C4 shell protection

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Model	MS-G230	MS-G215
System Specification		
Nominal Output Power (KW)	100	
AC Output Frequency and Voltage	50/60Hz; 380/400Vac	
Grid Type	3L/PE	
Energy (kWh)	230	215
Dimension (W x D x H,mm)	1765x1000x2500	
Weight Appr. (kg)	2800	2695
Battery Operating Voltage (V)	DC:704~900	DC:660 ~ 876
Max. RTE	88%	
System Communication	ETH/4G	
System Operating temperature range(℃)	-20~45	
Max. working altitude(m)	≤3000	
IP Rating of Enclosure	IP54	
Anti-corrosion grade	C4	
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	
Operating Temperature Range (℃)	-20~50(＞45℃ derating)	
Relative Humidity	15% ~ 85% (No Condensing)	
Dimension (W x D x H,mm)	485x780x220	
Communication	CAN,RS485, ETH	
Overvoltage protection	DC Type II / AC Type II	
Protection level	Class 1	
Max. Efficiency	98.5%	
Battery Specification		
Cell Type	LPF-280Ah	
Battery Module Nominal Voltage (V)	51.2	
Battery Module Energy (kWh)	14.3	
Communication	CAN	
Battery Module Dimension(W*D*H mm)	526x784.5x230	
Battery Module Weight (kg)	105	
Operating Temperature Range	Charge: 0～55℃ / Discharge: -20℃～50℃	
Cycle Life	≥6000(@25℃±2℃,0.5C/0.5C,70%EOL)	

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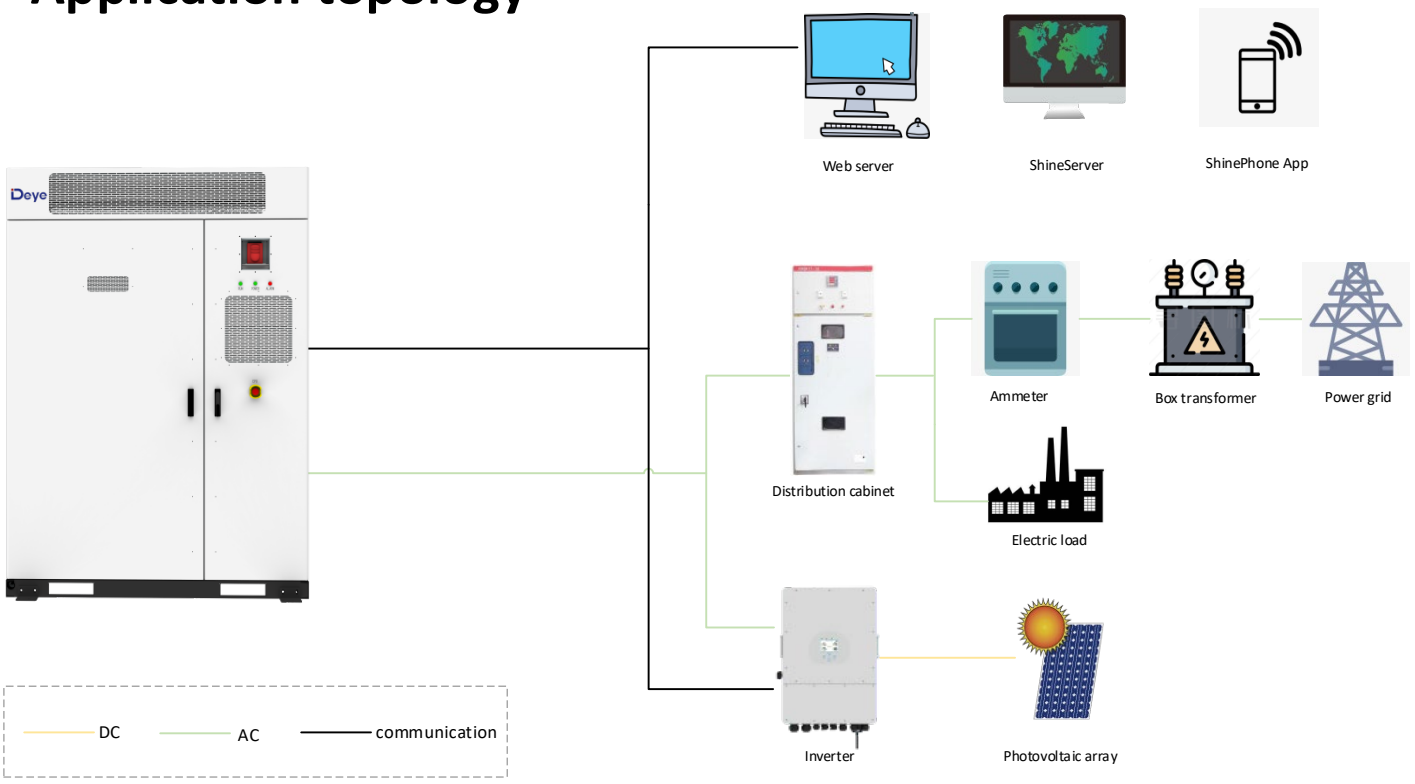
Application topology



Application scenario

Electricity saving

Cut peak and fill valley to reduce electricity bills
Demand control reduces capacity charges

Power expansion

When the power distribution capacity cannot meet the load requirements, the power is discharged to meet the load requirements and achieve virtual capacity expansion

Scenery tolerance

The remaining electricity emitted by the photovoltaic during the day is stored for the night discharge to smooth the output fluctuations of the wind power

Standby power supply

Discharge in the case of power outage or power restriction to ensure power consumption

Optical storage microgrid

Electricity can be saved, and applications such as standby power supply can provide stable power supply for islands, mountains and other areas that cannot be connected to the grid

Demand response

Receive power grid dispatching and enjoy dispatching subsidies