

MS Series

5-10kW | 3 MPPTs | Single Phase

The MS Series is GoodWe's answer to the residential segment's expanding needs. This 5-10 kW, Single Phase, 3 MPPTs inverter is a powerful and versatile solution. It is truly a champion in terms of DC oversizing, offering as much as 200%, way above the competition, making it possible as well to achieve 110% AC overloading. With a start-up voltage of only 80V the MS is able to generate electricity earlier than equivalent products, achieving a high efficiency of 97.7%. This inverter is compatible with bifacial modules and outstandingly and its maximum current input reaches 12.5A per string. The MS comes with an AFCI integrated protection and the light weight allows for effortless installation.



3 MPPTs



Up to 110% AC output overloading



80V Startup Voltage



Up to 200% DC input oversizing

Technical Data	GW5000-MS	GW6000-MS	GW7000-MS	GW8500-MS	GW10K-MS
PV String Input Data					
Max. DC Input Power (Wp)	10000	12000	13500	13500	13500
Max. DC Input Voltage (V)	600	600	600	600	600
MPPT Operating Voltage Range (V)	80~550	80~550	80~550	80~550	80~550
Start-up Voltage (V)	80	80	80	80	80
Nominal DC Input Voltage (V)	360	360	360	360	360
Max. Input Current per MPPT (A)	12.5 / 12.5 / 12.5	12.5 / 12.5 / 12.5	12.5 / 12.5 / 12.5	12.5 / 12.5 / 12.5	12.5 / 12.5 / 12.5
Max. Short Circuit Current per MPPT (A)	15 / 15 / 15	15 / 15 / 15	15 / 15 / 15	15 / 15 / 15	15 / 15 / 15
Number of MPPTs	3	3	3	3	3
Number of Strings per MPPT	1	1	1	1	1
AC Output Data					
Nominal Output Power (W)	5000	6000	7000	8500	10000
Nominal Output Apparent Power (VA)	5000	6000	7000	8500	10000
Max. AC Apparent Power (VA)	5500	6600	7700	9350	10000
Nominal Output Voltage (V)	220 / 230	220 / 230	220 / 230	220 / 230	220 / 230
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	25	30	35	42.5	45.5
Nominal Output Current (A)	22.7 / 21.7	27.3 / 26.1	31.8 / 30.4	38.6 / 37	45.5 / 43.5
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%
Efficiency					
Max. Efficiency	97.7%	97.7%	97.7%	97.7%	97.7%
European Efficiency	97.3%	97.3%	97.3%	97.3%	97.3%
Protection					
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
DC SPD Protection	Type II				
AC SPD Protection	Type III (Type II Optional)				
General Data					
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling Method	Natural Convection				
Display	LED, LCD				
Communication	RS485, WiFi / LAN (optional)				
Weight (Kg)	22.5	22.5	22.5	22.5	22.5
Size (Width × Height × Depth mm)	511 × 415 × 175	511 × 415 × 175	511 × 415 × 175	511 × 415 × 175	511 × 415 × 175
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1
Topology	Transformerless				
Country of Manufacture	China				

*: Please visit GoodWe website for the latest certificates.