

GOODWE SINGLE-PHASE INVERTERS

MS SERIES | 3-8.5KW | 3 MPPTS



The MS Series of 5-10kW single-phase inverters with 3 MPPTs for complex rooftops, is a powerful and versatile solution for the expanding needs of the residential market. It is truly a superior solution when it comes to DC oversizing, offering as much as 200% and achieving up to 110% AC overloading.

With a start-up voltage of only 80V, the MS series is able to generate electricity earlier than equivalent products, achieving a high efficiency of 97.7%. The MS is compatible with bi-facial modules and its maximum current input reaches 16A per string.

The MS inverters also come with integrated Arc-Fault Circuit Interrupter (AFCI) protection, and is lightweight for easy installation.

How you benefit:



HIGH EFFICIENCY

97.7% max. Efficiency.



FLEXIBLE DESIGN

Ease of installation and maintenance.



SAFE OPERATION

Up to 110% AC output overloading.



INNOVATIVE

Up to 200% DC input oversizing.



SOLAHART WARRANTY

Enjoy a 10-year warranty, for peace of mind.

Model	GW5000-MS	GW6000-MS	GW8500-MS	GW10K-MS
Input				
Max. Input Power (W)	10000	12000	13500	13500
Max. Input Voltage (V)	600	600	600	600
MPPT Operating Voltage Range (V)	80 - 550	80 - 550	80 - 550	80 - 550
Start-up Voltage (V)	80	80	80	80
Nominal Input Voltage (V)	360	360	360	360
Max. Input Current per MPPT (A)	16	16	16	16
Max. Short Circuit Current per MPPT (A)	20	20	20	20
Number of MPP Trackers	3	3	3	3
Number of Strings per MPPT	1	1	1	1
Output				
Nominal Output Power (W)	5000	6000	8500	10000
Nominal Output Apparent Power (VA)	5000	6000	8500	10000
Max. AC Active Power (W) ¹	5500	6600	9350	10000
Max. AC Apparent Power (VA) ²	5500	6600	9350	10000
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	25.0	30.0	42.5	45.5
Power Factor	-1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%
Efficiency				
Max. Efficiency	97.7%	97.7%	97.7%	97.7%
European Efficiency	97.3%	97.3%	97.3%	97.3%
Protection				
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type II	Type II	Type II	Type II
AC Surge Protection	Type III (Type II Optional)			
AFCI	Optional	Optional	Optional	Optional
Remote Shutdown	Optional	Optional	Optional	Optional
General Data				
Operating Temperature Range (°C)	-25 - +60	-25 - +60	-25 - +60	-25 - +60
Relative Humidity	0 - 100%	0 - 100%	0 - 100%	0 - 100%
Max. Operating Altitude (m)	3000	3000	3000	3000
Cooling Method	Natural Convection	Natural Convection	Natural Convection	Natural Convection
User Interface	LED, LCD	LED, LCD	LED, LCD	LED, LCD
Communication	WiFi, RS485 or LAN (Optional)			
Communication Protocols	Modbus-RTU (SunSpec Compliant)			
Weight (kg)	22.5	22.5	22.5	22.5
Dimension (W × H × D mm)	511 × 415 × 175	511 × 415 × 175	511 × 415 × 175	511 × 415 × 175
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65
DC Connector	MC4 (4 - 6 mm ²)	MC4 (4 - 6 mm ²)	MC4 (4 - 6 mm ²)	MC4 (4 - 6 mm ²)
AC Connector	AC Connector	AC Connector	AC Connector	AC Connector
Country of Manufacture	China	China	China	China

*: Please visit GoodWe website for the latest certificates.

*1: For Belgium Max. AC Active Power (W): GW5000-MS is 5000, GW6000-MS is 6000, GW7000-MS is 7000, GW8500-MS is 8500, GW10K-MS is 10000.

*2: For Belgium Max. Output Apparent Power (VA): GW5000-MS is 5000, GW6000-MS is 6000, GW7000-MS is 7000, GW8500-MS is 8500, GW10K-MS is 10000.

Specifications and designs included in this data sheet are subject to change without notice.

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