

MS Series

Three-MPPT, Single-Phase



Technical Data	GW5000-MS	GW6000-MS	GW7000-MS	GW8500-MS	GW9000-MS	GW10K-MS
PV String Input Data						
Max. DC Input Power (Wp)	10000	12000	13500	13500	13500	13500
Max. DC Input Voltage (V)	600	600	600	600	600	600
MPPT Range (V)	80~550	80~550	80~550	80~550	80~550	80~550
Start-up Voltage (V)	80	80	80	80	80	80
Nominal DC Input Voltage (V)	360	360	360	360	360	360
Max. Input Current (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	12.5/12.5/12.5
Max. Short Current (A)	15/15/15	15/15/15	15/15/15	15/15/15	15/15/15	15/15/15
No. of MPP Trackers	3	3	3	3	3	3
No. of Input Strings per Tracker	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
AC Output Data						
Nominal Output Power (W)	5000	6000	7000	8500	9000	10000
Max. Output Apparent Power (VA)	5500	6600	7700	9350	9900	10000
Nominal Output Voltage (V)	220/230	220/230	220/230	220/230	220/230	220/230
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	25	30	35	42.5	45	45.5
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency						
Max. Efficiency	97.7%	97.7%	97.7%	97.7%	97.7%	97.7%
European Efficiency	97.3%	97.3%	97.3%	97.3%	97.3%	97.3%
Protection						
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
General Data						
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Convection					
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	RS485, WiFi(optional), LAN(optional)					
Weight (kg)	22.5	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	511*415*175
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1
Topology	Transformerless					
Certifications & Standards						
Grid Regulation	AS4777.2, IEC62109-1&2, UL1741, ABNT NBR 16149:2013					
Safety Regulation	IEC62109-1&2					
EMC	EN61000					