

# A-MS Series

On-Grid Up to 4 MPPTs, Single Phase

Technical Data	GW5000A-MS	GW6000A-MS	GW7000A-MS	GW7600A-MS	GW8600A-MS	GW9600A-MS
<b>PV String Input Data</b>						
Max. DC Input Power (W)	7500	9000	10500	11400	12900	15000
Max. DC Input Voltage (V)*1	600					
MPPT Range (V)	80~550					
Start-up Voltage (V)	95					
MPPT Range for Full Load (V)	300~500	360~500	210~500	230~500	260~500	300~500
Nominal DC Input Voltage (V)	380					
Max. Input Current (A)	12.5/12.5		12.5/12.5/12.5/12.5			
Max. Short Current (A)	15.2/15.2		15.2/15.2/15.2/15.2			
No. of MPP Trackers	2		4			
No. of Strings per MPP Tracker	1/1		1/1/1/1			
<b>AC Output Data (On-grid)</b>						
Output Voltage Range (Vac)	211 to 264 @240 / 183 to 229 @208					
Nominal Output Frequency (Hz)	60					
Nominal Apparent Power Output to Grid (VA)	5000/5000	6000/6000	7000/7000	7600/7600	8600/8600	9600/9600
Nominal AC Current Output to Grid (A)	20.8/24	25/28.8	29.2/33.6	31.7/36.5	35.8/41.3	40/46.1
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Output THDi (@Nominal Output)	<3%					
<b>Efficiency</b>						
Max. Efficiency	97.6%					
CEC Efficiency	97.5%@240	97.5%@240	97%@240			
	97%@208	97%@208	96.5%@208			
<b>Protection</b>						
PV Arc Fault Detection	Integrated					
Anti-islanding Protection	Integrated					
PV String Input Reverse Polarity Protection	Integrated					
Insulation Resistor Detection	Integrated					
Residual Current Monitoring Unit	Integrated					
Output Over Current Protection	Integrated					
Output Over Voltage Protection	Integrated					
<b>General Data</b>						
Operating Temperature Range	-31°F~-140°F (-35°C~60°C)					
Relative Humidity	0~95%					
Operating Altitude	≤13123ft (4000m)					
Cooling	Nature Convection			Intelligent Fan		
Noise (dB)	<30			<45		
User Interface	LED & APP					
Communication with Portal	Wi-Fi; LAN(Optional)					
Communication with RSD	SUNSPEC					
Weight	62.8lb (28.5kg)			70.5lb (32kg)		
Size (Width*Height*Depth)	16.3in * 31.1in * 6.9in (415mm * 791mm * 175mm)					
Mounting	Wall Bracket					
Protection Degree	NEMA Type 4X					
Standby Self-Consumption (W)	<20					
Topology	Transformerless					
<b>Certifications &amp; Standards</b>						
Grid Regulation	UL1741 SA, California Rule 21, HECO Rule 14, IEEE 1547, IEEE 1547.1					
Safety Regulation	UL 1741, CSA 22.2 No. 107-01, UL 1998, UL1699B					
EMC	FCC part15 CLASS B					

\*1: Inverter will not work when PV input voltage ≥585V.