

GMSL 7-10KWS Solar Inverter Series



Single Phase | 7-10KW | Low Voltage

- No fans design
- MPPT efficiency > 99.9%
- Reactive power compensation, adjust power factor



Two MPPT design



Quick and easy
installation



High-quality power
output and low THDI



Technical Data

PV Input Data	GMSL7KWS	GMSL8KWS	GMSL9KWS	GMSL10KWS
Max. DC Power (W)	9800	11200	12600	14000
Max. DC Voltage (V)	600	600	600	600
MPPT Voltage Range (V)	70-550	70-550	70-550	70-550
MPPT Full Power Voltage Range (V)	220-550	220-550	220-550	220-550
Rated Input Voltage (V)			360	
Start-up Voltage (V)			70	
Max. Input Current (A)	14+26		26+26	
Max. Short Current (A)	18+35		35+35	
No. of MPP Tracker / No. of PV String	2/3		2/4	
Input Connector Type	MC4			
AC Output Data	GMSL7KWS	GMSL8KWS	GMSL9KWS	GMSL10KWS
Max. Output Power (VA)	7700	8800	9900	11000
Nominal Output Power (W)	7000	8000	9000	10000
Max. Output Current (A)	33.6	38.3	45	50
Nominal Output Voltage (V)	L/N/PE, 220Vac, 240Vac			
Grid Voltage Range	180Vac-276Vac (According to local standard)			
Nominal Output Frequency (Hz)	50/60			
Grid Frequency Range	45-55Hz/54-66 Hz (According to local standard)			
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)			
Output Current THD	<3%			
Efficiency	GMSL7KWS	GMSL8KWS	GMSL9KWS	GMSL10KWS
Max. Efficiency	98.20%	98.20%	98.32%	98.40%
Euro Efficiency	97.95%	98.00%	98.00%	98.10%
Protection	GMSL7KWS	GMSL8KWS	GMSL9KWS	GMSL10KWS
PV Reverse Polarity Protection			YES	
PV Insulation Resistance Detection			YES	
AC Short Circuit Protection			YES	
AC Over Current Protection			YES	
AC Over Voltage Protection			YES	
Anti-Islanding Protection			YES	
Residual Current Detection			YES	
Over Temperature Protection			YES	
Integrated DC switch			YES	
Surge Protection	Integrated (Type III)			
Smart IV Curve Scanning			YES	
Quick Arc Fault Circuit Interruption			Optional	
General Data	GMSL7KWS	GMSL8KWS	GMSL9KWS	GMSL10KWS
Dimensions (W x H x D, mm)	370×535×192		370×535×192	
Weight (kg)	17		18	
Protection Degree	IP65			
Enclosure Material	Aluminum			
Ambient Temperature Range (°C)	-25 - + 60			
Humidity Range	0 - 100%			
Topology	Transformerless			
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)			
Cooling Concept	Convection		Intelligent fan cooling	
Noise Emission (db)			<40	
Night Power Consumption (W)			<1	
Max. Operation Altitude (m)			4000	
Certifications and Standards				
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12			
Safety Standard	IEC 60068, UL1741, EN62109			
Grid connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727			