

GMSL1-6KWS Solar Inverter Series



Single Phase | 1-6KW | Low Voltage

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



**Quick and easy
installation**



**Compact and light
body design**



**AC output 1.1x
continuous operation**



Technical Data

PV Input Data	GMSL1KWS	GMSL1.5KWS	GMSL2KWS	GMSL2.5KWS	GMSL3KWS
Max. DC Power (W)	1500	2250	3000	3750	4200
Max. DC Voltage (V)	500	500	500	500	500
MPPT Voltage Range (V)	50 -500	50 -500	50 -500	50 -500	50 -500
MPPT Full Power Voltage Range (V)	70 -500	110-500	145-500	180-500	220-500
Rated Input Voltage (V)	360				
Start-up Voltage (V)	50				
Max. Input Current (A)	14				
Max. Short Current (A)	18				
No. of MPP Tracker / No. of PV String	1/1				
Input Connector Type	MC4				
AC Output Data	GMSL1KWS	GMSL1.5KWS	GMSL2KWS	GMSL2.5KWS	GMSL3KWS
Max. Output Power (VA)	1100	1650	2200	2750	3300
Nominal Output Power (W)	1000	1500	2000	2500	3000
Max. Output Current (A)	6	9	12	13	15
Nominal Output Voltage (V)	L/N/PE, 220Vac, 230Vac, 240Vac				
Grid Voltage Range	180Vac-276Vac (According to local standard)				
Nominal Output Frequency (Hz)	50/60				
Grid Frequency Range	45-55Hz/54-66Hz (According to local standard)				
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)				
Output Current THD	<3%				
Efficiency	GMSL1KWS	GMSL1.5KWS	GMSL2KWS	GMSL2.5KWS	GMSL3KWS
Max. Efficiency	97.50%	97.80%	98.10%	98.10%	98.13%
Euro Efficiency	96.60%	96.70%	96.80%	97.23%	97.56%
Protection	GMSL1KWS	GMSL1.5KWS	GMSL2KWS	GMSL2.5KWS	GMSL3KWS
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	GMSL1KWS	GMSL1.5KWS	GMSL2KWS	GMSL2.5KWS	GMSL3KWS
Dimensions (W x H x D, mm)	280 x 260 x 116				
Weight (kg)	6				
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				
Noise Emission (db)	<21				
Night Power Consumption (W)	<0.2	<0.2	<1	<1	<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				

Technical Data

PV Input Data	GMSL3KWS	GMSL3.6KWS	GMSL4KWS	GMSL5KWS	GMSL6KWS
Max. DC Power (W)	4500	5400	6000	7000	8400
Max. DC Voltage (V)	600	600	600	600	600
MPPT Voltage Range (V)	70-550	70-550	70-550	70-550	70-550
MPPT Full Power Voltage Range (V)	110-550	130-550	145-550	180-550	220-550
Rated Input Voltage (V)	360				
Start-up Voltage (V)	70				
Max. Input Current (A)	14x2				
Max. Short Current (A)	18x2				
No. of MPP Tracker / No. of PV String	2/2				
Input Connector Type	MC4				
AC Output Data	GMSL3KWS	GMSL3.6KWS	GMSL4KWS	GMSL5KWS	GMSL6KWS
Max. Output Power (VA)	3300	3960	4400	5500	6600
Nominal Output Power (W)	3000	3600	4000	5000	6000
Max. Output Current (A)	15	17.5	20	24	28.7
Nominal Output Voltage (V)	L/N/PE, 220Vac, 230Vac, 240Vac				
Grid Voltage Range	180Vac-276Vac (According to local standard)				
Nominal Output Frequency (Hz)	50/60				
Grid Frequency Range	45-55Hz/54-66Hz (According to local standard)				
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)				
Output Current THD	<3%				
Efficiency	GMSL3KWS	GMSL3.6KWS	GMSL4KWS	GMSL5KWS	GMSL6KWS
Max. Efficiency	98.20%	98.20%	98.20%	98.20%	98.20%
Euro Efficiency	97.80%	97.82%	97.85%	97.90%	97.92%
Protection	GMSL3KWS	GMSL3.6KWS	GMSL4KWS	GMSL5KWS	GMSL6KWS
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	GMSL3KWS	GMSL3.6KWS	GMSL4KWS	GMSL5KWS	GMSL6KWS
Dimensions (W x H x D, mm)	358x360x142				
Weight (kg)	10				
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				
Noise Emission (db)	< 28				
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				
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