

G1 Series

Single Phase On Grid Inverter



KEY FEATURES

FLEXIBLE APPLICATIONS

- **50V** extra low start-up voltage
- Wider MPPT voltage **40-560V**
- Incorporate 3 MPPT design
- Up to **16A** max. DC input current per MPPT
- IV curve online scanning and diagnostics

SAFE & DURABLE

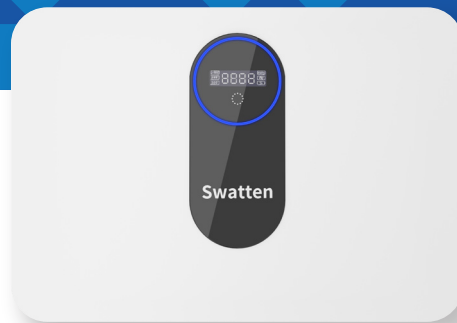
- Quick arc fault circuit interrupter (AFCI)
- Built-in Type II DC & AC Surge Protection Devices (SPD)
- Multi-level over-temperature derating and protection

SMART CONTROL

- **24/7** Live monitoring
- Remote firmware updates
- WLAN, CAN, RS485, 4G Available

FRIENDLY DESIGN

- **≤19.2kg** compact design
- Fast and easy commissioning via App
- Remote troubleshooting and program upgrading



G1 Series

Single Phase On Grid Inverter

Technical data

Type Designation	SiG-8kW-S	SiG-9kW-S	SiG-10kW-S
Input (DC)			
Recommend max. PV input power	12000 Wp	13500 Wp	15000 Wp
Max. PV input voltage	600 V	600 V	600 V
Min. operating PV voltage	40 V	40 V	40 V
Start-up input voltage	50 V	50 V	50 V
Rated PV input voltage	360 V	360 V	360 V
MPPT Voltage Range	40-560 V	40-560 V	40-560 V
No. of independent MPPT inputs	3	3	3
Default No. of PV strings per MPPT	1	1	1
Max. PV input current	16A/16A/16A	16A/16A/16A	16A/16A/16A
Max. DC short-circuit current	20A/20A/20A	20A/20A/20A	20A/20A/20A
Output (AC)			
Rated AC output power	8000 W	9000 W	10000 W
Max. AC output power	8000 VA	9000 VA	10000 VA
Rated AC output current (at 230V)	34.5 A	39.2 A	43.5 A
Max. AC output current	36.5 A	41 A	45.5 A
Rated AC voltage	220V/230V/240V	220V/230V/240V	220V/230V/240V
AC voltage range	154V~276V	154V~276V	154V~276V
Rated grid frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Grid frequency range	45~55Hz/55~65Hz	45~55Hz/55~65Hz	45~55Hz/55~65Hz
Harmonic (THD)(at rated power)	< 3%	< 3%	< 3%
Power factor at rated power	> 0.99	> 0.99	> 0.99
Adjustable power factor range	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging
Grid Type	Single phase	Single phase	Single phase
Efficiency			
Max. efficiency	97.80%	97.80%	97.80%
European efficiency	97.40%	97.40%	97.40%
Protection & Function			
Grid monitoring	Yes	Yes	Yes
DC reverse polarity protection	Yes	Yes	Yes
AC short circuit protection	Yes	Yes	Yes
Leakage current protection	Yes	Yes	Yes
Surge Protection	DC type II /AC type II	DC type II /AC type II	DC type II /AC type II
DC switch (PV)	Yes	Yes	Yes
PV string current monitoring	Yes	Yes	Yes
Arc fault circuit interrupter (AFCI)	Optional	Optional	Optional
General Data			
Dimensions (W*H*D)	495*345*180mm	495*345*180mm	495*345*180mm
Weight	≤19.2kg	≤19.2kg	≤19.2kg
Mounting method	Wall-mounting bracket	Wall-mounting bracket	Wall-mounting bracket
Topology	Transformerless	Transformerless	Transformerless
Degree of protection	IP65	IP65	IP65
Operating ambient temperature range	-25°C~60°C	-25°C~60°C	-25°C~60°C
Allowable relative humidity range	0~100%	0~100%	0~100%
Cooling method	Natural convection	Natural convection	Natural convection
Max. operating altitude	4000m	4000m	4000m
Display	LED indicator	LED indicator	LED indicator
Communication	RS485/CAN/WLAN	RS485/CAN/WLAN	RS485/CAN/WLAN
DC connection type	MC4	MC4	MC4
AC connection type	Screws & Fasteners	Screws & Fasteners	Screws & Fasteners
Grid Support	Active & reactive power control and power ramp rate control	Active & reactive power control and power ramp rate control	Active & reactive power control and power ramp rate control