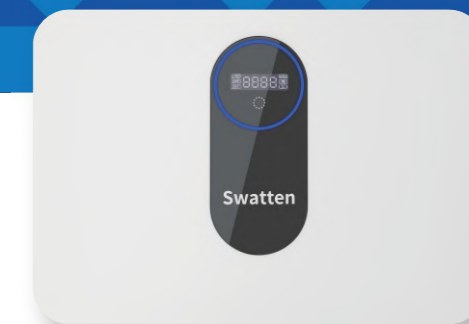


# G1 Series

Single Phase On Grid Inverter



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Single Phase On Grid Inverter

## Technical data

Type Designation	SiG-8kW-S	SiG-9kW-S	SiG-10kW-S
<b>Input (DC)</b>			
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
<b>Output (AC)</b>			
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
<b>Efficiency</b>			
Max. efficiency	97.80%	97.80%	97.80%
European efficiency	97.40%	97.40%	97.40%
<b>Protection &amp; Function</b>			
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
<b>General Data</b>			
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

## 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