

G1 Series

Three Phase On Grid Inverter



KEY FEATURES

FLEXIBLE APPLICATIONS

- Lower start-up voltage **180V**
- Wider MPPT voltage **160-1000V**
- **Up to 32A max.** DC input current per MPPT

SMART CONTROL

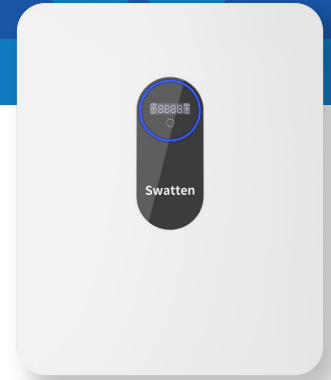
- **24/7** Live monitoring
- Remote firmware updates
- WLAN, CAN, RS485, 4G Available

SAFE & DURABLE

- Quick arc fault circuit interrupter (AFCI)
- Built-in Type II DC & AC Surge Protection Devices (SPD)
- Max. output power **22000VA**

FRIENDLY DESIGN

- **≤ 27kg** compact design
- Fast and easy commissioning via App
- Die-casting design, fanless design, low noise



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Technical data

Type Designation	SiG-15kW-T	SiG-17kW-T	SiG-20kW-T
PV Input			
Recommend max. PV input power	22000 Wp	25500 Wp	30000 Wp
Max. PV input voltage	1100 V*	1100 V*	1100 V*
Start-up input voltage	180 V	180 V	180 V
Rated PV input voltage	600 V	600 V	600 V
MPPT Voltage Range	160-1000 V	160-1000 V	160-1000 V
No. of independent MPPT inputs	2	2	2
No. of PV strings per MPPT	2\2	2\2	2\2
Max. PV input current	64A(32A/32A)	64A(32A/32A)	64A(32A/32A)
Max. Short-circuit current of PV input	80A(40A/40A)	80A(40A/40A)	80A(40A/40A)
AC Output			
Rated AC output power	15000 W	17000 W	20000 W
Max. AC output apparent power	16500 VA**	18700 VA**	22000 VA**
Rated. AC output apparent power	16500 VA**	18700 VA**	22000 VA**
Max. AC output current	25 A	28.3 A	31.9 A
Rated AC output current	21.7 A	24.6A	29 A
Rated AC voltage	3/N/PE 220V/380V 230V/400V 240V/415V	3/N/PE 220V/380V 230V/400V 240V/415V	3/N/PE 220V/380V 230V/400V 240V/415V
AC voltage range	180V-276V/311V-478V	180V-276V/311V-478V	180V-276V/311V-478V
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)(of rated power)	<3%	<3%	<3%
Power factor at Rated power	>0.99	>0.99	>0.99
Adjustable power factor	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging
AC Type	Three phase	Three phase	Three phase
Efficiency			
Max. efficiency	98.50%	98.50%	98.50%
European efficiency	98.10%	98.10%	98.10%
Protection & Function			
Grid support	LVRT,HVRT,reactive & active power control and power ramp rate control	LVRT,HVRT,reactive & active power control and power ramp rate control	LVRT,HVRT,reactive & active power control and power ramp rate control
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	Type II	Type II	Type II
DC switch (PV)	Yes	Yes	Yes
PV string current monitoring	Yes	Yes	Yes
Arc fault circuit interrupter (AFCI)	Optional	Optional	Optional
Mechanical and environment-related parameters			
Dimensions (W*H*D)	450*550*185mm	450*550*185mm	450*550*185mm
Weight	≤27kg	≤27kg	≤27kg
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	Smart forced air cooling	Smart forced air cooling	Smart forced air cooling
Max. operating altitude	4000m	4000m	4000m
Display	LED	LED	LED
Communication	RS485/CAN/WLAN	RS485/CAN/WLAN	RS485/CAN/WLAN
PV connection type	MC4	MC4	MC4
AC connection type	Plug and play connector	Plug and play connector	Plug and play connector
*: The inverter switches to standby mode when the input voltage falls within the range of 1,000V to 1,100V.			
**: For Germany, the maximum AC output power is as follows: SiG-15kW-T: 15,000VA; SiG-17kW-T: 17,000VA; SiG-20kW-T: 20,000VA			