

SG 1000TS-M



Compact design

- 7 square meters area for megawatt-class equipment
- Transport and installation by forklift, more flexible and economical



Convenient O&M

- Open door design of four sides, easy for installation and maintenance
- More flexible for inner devices overall replacement



Heat Dissipate, Dust Proof and Heat Insulation

- Efficient cooling patented design of combination inline and ventilation
- Patented structure design of inlet and outlet, effective dust proof
- Thick and efficient heat insulation layer



Advanced inverter technology

- Advanced three-level circuit structure improves product performance
- 8-MPPT, wide MPP voltage range, Flexible setting of 2 /4/ 8 MPPT
- Comprehensive modular, Draw-type design



Environmental

- After the end of the life cycle of the container shell is recyclable, no concrete recycling issues

Input Side Data(DC)

Max. DC power (@ $\cos \phi = 1$)	1120kW
Max. input voltage	1000V
Start voltage	520V
Min. working voltage	500V
Max. input current	2128A
MPPT voltage range	500~850V
Number of MPPTs	2/4/8
Number of DC inputs	2 x 8

Output Side Data (AC)

Rated power	1000kW
Max. output AC power	1100kVA
Max. output current	2036A
THD	<3% (Nominal power)
Nominal AC voltage	315V
AC voltage range	252~362Vac
Nominal grid frequency	50Hz/60Hz
Grid frequency range	47~52Hz/57~62Hz
Power factor	>0.99@default value at nominal power, adj. 0.9 overexcited ~0.9 underexcited
Isolated transformer	No
DC current injection	<0.5% I_n

Efficiency

Max. efficiency	98.80%
European efficiency	98.60%

General Data

Dimensions (W*H*D)	2991*2591*2438mm
Weight	Containing DC Distribution Cabinet: 5169Kg, Not Containing DC Distribution Cabinet: 4834Kg
Operating ambient temperature range	-35~+50°C
External auxiliary supply voltage	380V
Cooling method	Temperature controlled air-cooling
Ingress protection rating	IP54
Allowable relative humidity range	0~95%, no condensing
Max. operating altitude	6000m (>3000m derating)
Communication port/protocols	Standard: RS485/ Modbus, Internet Options: CDT, DNP3.0, 101, 103, 104, GPRS/ CDMA module

Protection

DC disconnect device	Switch-disconnector with fuses
AC disconnect device	Switch-disconnector with fuses
DC overvoltage protection	Yes
AC overvoltage protection	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
Over temperature protection	Yes
Insulation monitoring	Yes

Circuit Diagram

