

SG 1000TS-MV



Turn-key Solution, High Integration

- Integrated PV inverter, DC/AC power distribution (Option on request), medium-voltage transformer, system monitoring, fire alarm, environment monitoring (Option on request) functional modules and so on
- Save AC cables, lower consumption and promote users' benefits
- SCADA monitoring system integrated to reduce the costs and ensure the optimal status of the plant



Easy for Transportation and Handling, Environment Adaptable

- Container design, easy for transportation
- Integral hoisting, easy to install, reduce the installation cost and risks
- Standard container enclose, integrated design for ventilation, sandproof, anti-corrosion and anti-low-temperature and other application requirements



Advanced Technology, Grid-friendly

- Efficiency, energy-saving and reliability as with all Sungrow inverters
- Integrated with standard power dispatch interfaces, convenient and flexible access to power grid
- LVRT (Zero-voltage Ride-through), Reactive power control with power factor from 0.9 lagging to 0.9 leading, Give reactive power compensation to the grid at night according to directive

Input Side Data(DC)

Max. DC power (@ $\cos\phi = 1$)	1120kW
Max. input voltage	1000V
Start voltage	500V
Min. working voltage	460V
Max. input current	2440A
MPPT voltage range	460~850V
Number of DC inputs	16/32

Output Side Data(AC)

Rated power	1000kW
Max. output AC power	1100kVA
Max. output current	63.5A
Max. THD	<3%(at nominal power)
Rated grid voltage	10-24kV
Rated grid frequency	50Hz/60Hz
Grid frequency range	47~52Hz /57~62Hz
Power factor at rated power	> 0.99
DC current injection	<0.5% of rated inverter output current
Adjustable displacement factor	0.9 (leading)~0.9 (lagging)

Efficiency

Max. efficiency	98.00%
European efficiency	97.50%

General Data

Dimensions (W*H*D)	6058*2591*2438mm
Weight	12T
Operating temperature range	-35~50°C
External auxiliary supply voltage (Opt.)	380V
Cooling concept	Temperature controlled air-cooling
Degree of protection	IP54
Max. permissible value for relative humidity (non-condensing)	0~95%, non -condensing 6000m (derating > 3000m)
Max. altitude	Standard: RS485/ Modbus, Internet
Communication port/protocols	Options: CDT, DNP3.0, 101, 103, 104, GPRS/CDMA module

Protection

DC input side disconnection device	Switch-disconnector with fuses
AC output side disconnection device	Switch-disconnector with fuses
DC overvoltage protection	Yes
AC overvoltage protection on the LV side	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
Overheat protection	Yes
Insulation monitoring	Yes

Circuit Diagram

