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SG1000MX

Efficient

- Max. Efficiency at 98.8%
- Efficient MPPT control design for higher yield
- Efficient control algorithm, low consumption on switch device
- Temperature controlled air-cooling, energy saving

Adaptable

- -30°C~+55°C continuously operating at rated power
- IP54 for outdoor installation
- Zone monitoring for each array input
- Auxiliary heater (Optional)

Grid-friendly

- Fully grid support, including LVRT, OVRT, FRT
- Overload capability, active power without derating while power factor adjustment
- Adjustable active power (0 -110%)
- SVG(Static Var Generation) at night (optional)
- Compatible with various power grid code

Qualified

- TUV, G59/3, cCSAus

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Input (DC)

Max. PV input voltage	1000V
Max. PV input current	2000A
MPP voltage range	550~850V
No. of DC inputs	12

Output (AC)

Nominal AC output power	1000kW
Max. AC output apparent power	1100kVA
Max. AC output current	1650A
THD	<3 % (Nominal power)
Nominal AC voltage	385V
AC voltage range	338~424V
Nominal grid frequency	50Hz/60Hz
Grid frequency range	47~52Hz/57~ 63Hz
Power factor	0.8 leading ~0.8 lagging
DC current injection	<0.5 % In

Efficiency

Max. efficiency	98.80%
CEC Efficiency	98.50%
Euro. efficiency	98.40%

General Data

Dimensions (W*H*D)	2598*2164*1000mm 102.28"*85.15"*41.99"
Weight	2050kg 4409lb
Operating ambient temperature range	-30~+60℃ (>55℃ derating) -31~+140℉(>131℉ derating)
Night power consumption	<20W
External auxiliary supply voltage	400/480V (3/N/PE)
Cooling method	Temperature controlled air-cooling
Ingress protection rating	IP54 NEMA3R
Allowable relative humidity range	0~95%, no condensing
Max. operating altitude	4000m (>2000m derating) 13123ft (>6561ft derating)
Display	LCD
Communication	RS485/Modbus, Ethernet

Protection

Input side disconnection device	Load switch+fuse
Output side disconnection device	Circuit breaker
DC overvoltage protection	Yes
AC overvoltage protection	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
Over temperature protection	Yes
Insulation monitoring	Yes

Efficiency Curve