SG IOOOMX





Grid-friendly

- Full grid support, including LVRT, OVRT, FRT, and power curtailment
- Overload capability, maintaining real power output while satisfying power factor requirement
- Adjustable active power (0 -110%)
- Adjust automatically adjust reactive power according to the grid voltage
- Adjust automatically adjust active power according to the grid frequency
- Reactive power control with power factor adjustment from 0.8 leading / 0.8 lagging
- Nighttime reactive power compensation capability
- Intelligent control, compliance with multiple regional utility standards

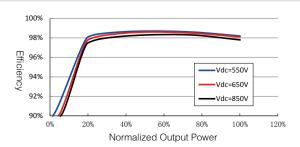
Efficient

- 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℃~+55℃ continuously operating at rated power
- NEMA 3R(IP54) for easy outdoor installation
- Continuously and stably working in high altitude environment
- Auxiliary heater (Optional)

Efficiency Curve





Qualified

• TÜV, cCSAus, compliance with BDEW

Input (DC)

Max. PV input voltage Max. PV input current MPP voltage range No. of DC inputs PV array configuration

Output (AC)

Nominal AC output power Max. AC output apparent power Max. AC output current THD Nominal AC voltage AC voltage range Nominal grid frequency Grid frequency range Power factor Isolated transformer DC current injection

Efficiency

Max. efficiency European efficiency CEC efficiency

Protection

Input side disconnection device Output side disconnection device DC overvoltage protection AC overvoltage protection Grid monitoring Ground fault monitoring Over temperature protection Insulation monitoring

General Data

Dimensions (W*H*D) Weight Operating ambient temperature range Night power consumption External auxiliary supply voltage Cooling method Ingress protection rating Allowable relative humidity range Max. operating altitude Fresh air consumption Display Communication

- 1000V 2000A 550~850V 1, 8-14 Negative ground (standard), floating or positive ground (opional)
- 1000kW 1100kVA 1650A <3 % (Nominal power) 385V 338~424V 50Hz/60Hz 47~52Hz/57~ 63Hz 0.8 overexcited ~0.8 underexcited No <0.5 % In

98.80% 98.40% 98.50%

DC load switch; Breaker (Optional) Breaker Yes Yes Optional Yes Optional

2598*2164*1000mm 2050kg -30~+60°C (>55°C derating) <20W 400/480V (3/N/PE) Temperature controlled air-cooling NEMA 3R (IP54) 0~95%, no condensing 4000m (>2000m derating) 4425m³/h LCD RS485/Modbus, Ethernet

Circuit Diagram

