

# SG750MX / SG800MX



## Efficient

- Max. Efficiency at 98.7%
- Efficient MPPT control design for higher yield
- Efficient control algorithm, low consumption on switch device
- Temperature controlled air-cooling, energy saving



## Adaptable

- -25°C~+55°C continuously operating at rated power
- NEMA 3R(IP54) for outdoor installation
- Continuously and stably working in high altitude environment
- Auxiliary heater (Optional)



## 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%) SVG(Static Var Generation)at night (optional)
- Intelligent control, compliance with multiple regional utility standards



## Qualified

- cCSAus,TUV, G59/3



DC	SG750MX	SG800MX
Maximum Input Voltage	1000V	
Minimum Input Voltage	500V	545V
MPPT Voltage Range	500V - 820V	545V - 820V
Maximum Input Current	1600A	
Rated Input Voltage	550V	595V
Number of MPPTs	1	
Number of DC Inputs	8, 12 Landing Terminal Holes on DC Bus	
PV Array Configuration	Negative Ground (Standard) / Floating (Optional)	

AC	SG750MX	SG800MX
Rated Power	750kW	800kW
Maximum AC Output Apparent Power	825kVA	880kVA
Maximum Output Current	1512A (<=25°C) (<=77°F)	1485A
Output Current THD	<3% (@ AC Rated Power)	
Rated AC Voltage	315Vac (277 - 347V)	342Vac (300 - 377V)
Rated Output Current	1375A	1350A
Rated Frequency	50Hz/60Hz	
Power Factor at Rated Power	>0.99	
DC Current Injection	<0.5% at Rated AC Current	
Adjustable Power Factor	0.8 (lagging) - 0.8 (leading)	
Tare Losses	<100W	

Efficiency	SG750MX	SG800MX
Maximum Efficiency	98.60%	98.70%
CEC Efficiency	98.50%	98.50%

Protection	SG750MX	SG800MX
Input Side Disconnection Device	DC Load Switch and Fuses	
Output Side Disconnection Device	AC Circuit Breaker	
Ground Fault Monitoring	Yes	
Insulation Monitoring	Optional	
Surge Arrester for Auxiliary Supply	Yes	
Low/High Voltage Ride Through	Yes (Configurable)	
Frequency Ride Through (FRT)	Yes (Configurable)	
Active Power vs. Frequency Control	Configurable	
Reactive Power vs. Voltage Control	Configurable	
Power Ramp Rate Control	Yes	

Mechanical	SG750MX	SG800MX
Dimensions (W/H/D)	2598*2164*1000mm 102.3"*85.2"*39.4"	
Weight	2700kg 5925lbs	
Seismic Rating	Zone 4	
Wind Load	120mph	
Operating Temperature Range	-25°C to 60°C -13°F to 140°F Derating above 55°C 131°F -40°C to 60°C -40°F to 140°F (With Optional Dehumidifier)	
Storage Temperature Range	-40°C to 75°C -40°F to 167°F	
Noise	<70dB	
External Auxiliary Supply Voltage	PV (450Vdc - 1000Vdc); 480V/600V (3/N/PE)	
Cooling	Controlled Forced Air-cooling	
Enclosure	IP54 NEMA3R	
Maximum Permissible Humidity	0-95%, Non-condensing	
Maximum Altitude	6,000m 19,658ft Derating >2,000m 6,562ft	
Communication Protocols	Modbus VIA RS485; Ethernet (Optional)	
Communication Interface	RS485; Ethernet	

**Efficiency Curve**

