

SG500MX/SG630MX



Cost Effective

- Efficient three level topology, maximum efficiency up to 99 %
- Small dimension less than 1.6 m³
- Integrated SVG function



Flexible

- Complete grid support: LVRT, ZVRT, HVRT
- PF range from lagging 0.8 to leading 0.8
- Wide MPP range suitable for flexible design



Easy Maintenance

- Modular design easy for maintenance
- Integrated current monitoring easy for fast trouble shooting



Reliable

- No derating up to 55 °C
- Temperature controlled forced-air cooling



Input (DC)	SG500MX	SG630MX
Max. input voltage	1000 V	
Startup voltage	500 V	540 V
Min. working voltage	460 V	
Max. input current	1220 A	1356 A
MPP voltage range	460 - 850 V	520 - 850 V
Output (AC)		
Nominal output power	500 kW	630 kW
Max. AC output apparent power	550 kVA	693 kVA
Max. output current	1008 A	1111 A
THD	< 3 % (at nominal power)	
Nominal grid voltage	315 V	360 V
Grid voltage range	252 - 362 V	288 - 414 V
Nominal grid frequency	50 / 60 Hz	
Grid frequency range	45 - 55 Hz / 55- 65 Hz	
Power factor	> 0.99 (at nominal power)	
DC current injection	< 0.5 % I _n	
Power factor range	0.8 leading - 0.8 lagging	
Efficiency		
Max. efficiency	99.00 %	
Euro. efficiency	98.70 %	
General Data		
Dimensions (W*H*D)	1005*1915*835 mm	
Weight	800 kg	
Operating ambient temperature range	-30 to 65 °C (> 55 °C derating)	
External auxiliary power supply	3 - 380 V / 2.5 A	
Cooling method	Temperature controlled forced-air cooling	
Ingress protection range	IP21	
Allowable relative humidity range	0 - 95 %, no condensing	
Max. operating altitude	5000 m (> 3000 m derating)	
Communication	RS485 / Modbus, Ethernet	
Protections & Functions		
Anti-PID function	Optional	
SVG function	Yes	
Hibernate mode at night	Yes	
Direct parallel connection at AC side	Yes	
Soft start, stop	Yes	
Automatic switch between internal and external power supply	Yes	
DC overvoltage protection	Type II	
DC reverse polarity protection	Yes	
DC short-circuit protection	Yes	
Insulation monitoring	Yes	
AC overvoltage protection	Type II	
Grid monitoring	Yes	
Ground fault monitoring	Yes	
Overheat protection	Yes	