

SG8.0/9.0/10RS

String inverter with triple MPPT for 600 Vdc systems



HIGH YIELD

- Compatible with high power PV modules and bifacial modules
- Lower startup & wider MPPT voltage range
- Built-in smart PID Zero function



SAFE AND RELIABLE

- Integrated arc fault circuit interrupter
- Built-in Type II DC&AC SPD
- Corrosion protection rating at C5



USER FRIENDLY SETUP

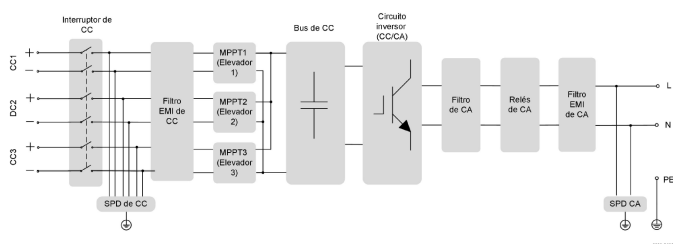
- Plug and play installation
- One-click access to iSolarCloud monitoring platform
- Light and compact with optimized heat dissipation design



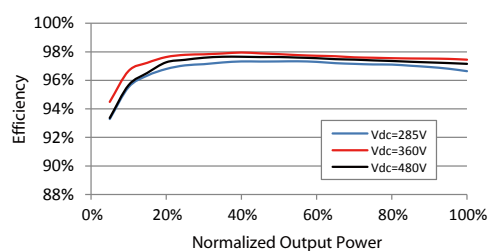
SMART MANAGEMENT

- Real time data (10 seconds refresh sample)
- 24/7 live online monitoring and with integrated display
- Online IV curve scan and diagnosis

CIRCUIT DIAGRAM



EFFICIENCY CURVE (SG10RS)



Type designation	SG8.0RS	SG9.0RS	SG10RS
Input (DC)			
Recommended max. PV input power	12 kWp	13.5 kWp	15 kWp
Max. PV input voltage	600 V		
Min. operating PV voltage / Start-up input voltage	40 V / 50 V		
Rated PV input voltage range	250 V - 480 V	280 V - 480 V	310 V - 480 V
MPP voltage range	40 V – 560 V		
No. of independent MPP inputs	3		
Default No. of PV strings per MPPT	1		
Max. PV input current	48 A (16 A / 16 A / 16 A)		
Max. DC short-circuit current	60 A (20 A / 20 A / 20 A)		
Output (AC)			
Rated AC output power	8000 W	9000 W	10000 W
Max. AC Output power	8000 VA	9000 VA	10000 VA
Rated AC output current (at 230 V)	34.8 A	39.2 A	43.5 A
Max. AC output current	36.4 A	41 A	45.5 A
Rated AC voltage	220 V / 230 V / 240 V		
AC voltage range	154 V - 276 V		
Rated grid frequency / Grid frequency range	50 Hz / 45 - 55 Hz		
	60 Hz / 55 - 65 Hz		
Harmonic (THD)	< 3 % (at rated power)		
Power factor at rated power / Adjustable power factor	> 0.99 / 0.8 leading - 0.8 lagging		
Feed-in phases / Connection phases	1 / 1		
Efficiency			
Max. efficiency / European efficiency	97.8 % / 97.3 %	97.8 % / 97.4 %	97.8 % / 97.4 %
Protection			
Grid monitoring	Yes		
DC reverse polarity protection	Yes		
AC short-circuit protection	Yes		
Leakage current protection	Yes		
Surge Protection	DC type II / AC type II		
DC switch	Yes		
PV string current monitoring	Yes		
Arc fault circuit interrupter (AFCI)	Yes		
PID Zero function	Yes		
Optimizer compatibility	Yes		
General Data			
Dimensions (W * H * D)	490 mm * 340 mm * 170 mm		
Weight	19 kg		
Mounting method	Wall-mounting bracket		
Topology	Transformerless		
Degree of protection	IP65		
Operating ambient temperature range	-25 °C to 60 °C		
Allowable relative humidity range (non-condensing)	0 % - 100 %		
Cooling method	Natural cooling		
Max. operating altitude	4000 m		
Display	LED digital display & LED indicator		
Communication	Ethernet / WLAN / RS485 / DI (Ripple control & DRM)		
DC connection type	MC4 (Max. 6 mm²)		
AC connection type	Plug and play connector (Max. 16 mm²)		
Grid compliance	IEC/EN62109-1/2, IEC/EN62116, IEC/EN61727, IEC/EN61000-6-2/3, UNE 217002:2020, NTS V2 TypeA, RD 1699/2011, RD413/2014, RD 647/2020		
Grid Support	Active & reactive power control and power ramp rate control		

