

# SG8.0/10RS

Multi-MPPT String Inverter for 600 Vdc System



ADA



## HIGH YIELD

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



## SAFE AND RELIABLE

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



## USER FRIENDLY SETUP

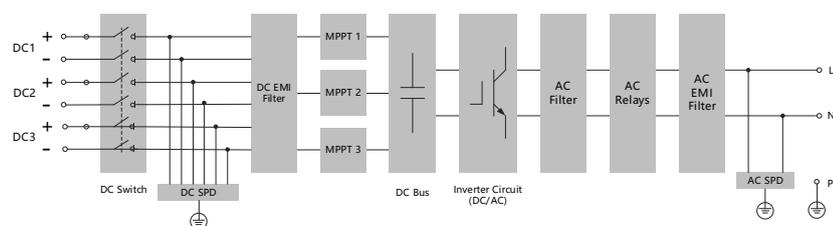
- Plug and play installation \*
- One-click access to iSolarCloud monitoring platform
- Light and compact with optimized heat dissipation design



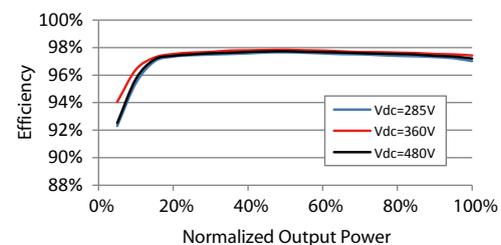
## SMART MANAGEMENT

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

## CIRCUIT DIAGRAM



## EFFICIENCY CURVE



Type designation	SG8.0RS	SG10RS
<b>Input (DC)</b>		
Recommended max. PV input power	12 kWp	15 kWp
Max. PV input voltage	600 V	
Min. PV input voltage / Startup input voltage	40 V / 50 V	
Rated PV input voltage	360 V	
MPP voltage range	40 – 560 V	
No. of independent MPP inputs	3	
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)	
Max. current for DC connector	30A	
<b>Output (AC)</b>		
Rated AC output power	8000 W	9999 W
Max. AC output apparent power	8000 VA	9999 VA
Rated AC output apparent power	8000 VA	9999 VA
Max. AC output current	36.4 A	43.5 A
Rated AC output current (at 230V)	34.8 A	45.5 A
Rated AC voltage	220 / 230 / 240V	
AC voltage range	154 – 276 V	
Rated grid frequency	50 Hz / 60 Hz	
Grid frequency range	45 – 55 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	
<b>Efficiency</b>		
Max. efficiency / European efficiency	97.8 % / 97.3 %	97.8 % / 97.4 %
<b>Protection</b>		
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	
Ground fault monitoring	Yes	
DC switch	Yes	
PV string current monitoring	Yes	
Arc fault circuit interrupter (AFCI)	Yes	
PID recovery function	Yes	
DC terminal protective cove	Yes	
<b>General Data</b>		
Dimensions (W*H*D)	490 * 340 * 170 mm	
Weight	19 kg	
Mounting method	Wall-mounting bracket	
Topology	Transformerless	
Degree of protection	IP65	
Corrosion	C5	
Operating ambient temperature range	-25 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 mm <sup>2</sup> )	
AC connection type	Plug and play connector (Max. 16 mm <sup>2</sup> ) *	
Grid compliance	IEC 62109-1/2, AS/NZS 4777.2:2020	
Grid Support	Active & reactive power control and power ramp rate control	
Country of manufacture	China	

\* Country code needs to be set before grid connection