

# SG5.0RS-ADA/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 Zero function

## 🛡️ SAFE AND RELIABLE

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

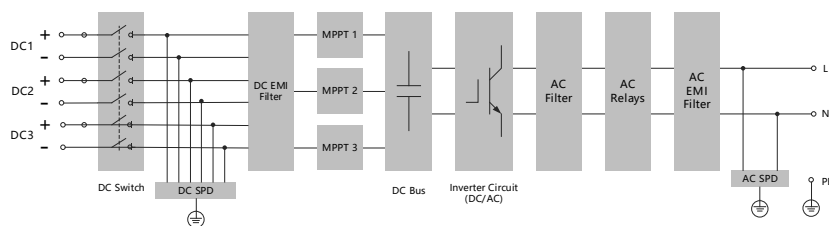
## 💡 USER FRIENDLY SETUP

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

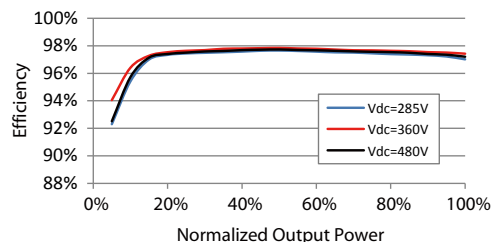
## ⚙️ SMART MANAGEMENT

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

## CIRCUIT DIAGRAM



## EFFICIENCY CURVE (SG10RS-ADA)



Type designation	SG5.0RS-ADA	SG8.0RS	SG10RS
<b>Input (DC)</b>			
Recommended max. PV input power	7.5 kWp	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	
MPPT operating voltage range ***		40 V - 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		30 A	
<b>Output (AC)</b>			
Rated AC output power	4999 W	8000 W	9999 W
Max. AC output apparent power	4999 VA	8000 VA	9999 VA
Rated AC output apparent power	4999 VA	8000 VA	9999 VA
Max. AC output current	22.7 A	36.4 A	43.5 A
Rated AC output current (at 230V)	21.7 A	34.8 A	45.5 A
Rated AC voltage		220 V / 230 V / 240 V	
AC voltage range		154 V - 276 V	
Rated grid frequency		50 Hz / 60 Hz	
Grid frequency range		45 Hz – 55 Hz / 55 Hz – 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 % / 96.9 %	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 cover		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

\*\* Input voltage exceeding the MPPT operating voltage range triggers inverter protection

\*\*\* Please refer to the user manual for the full load MPPT voltage range

