

SG4.0/5.0/6.0RS-L

Double-MPPT String Inverter for 600 Vdc System



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

- Built-in Type II DC & AC SPD
- IP65, indoor & outdoor installation



USER FRIENDLY SETUP

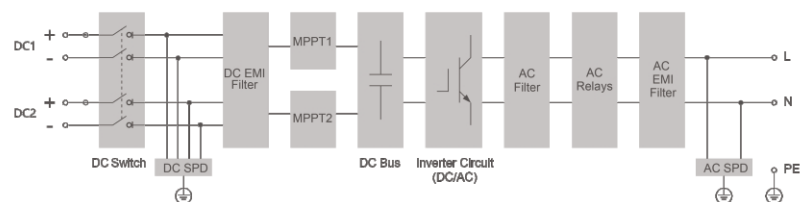
- Plug and play installation
- One-click access to iSolarCloud monitoring platform
- Light and compact with optimized heat dissipation design



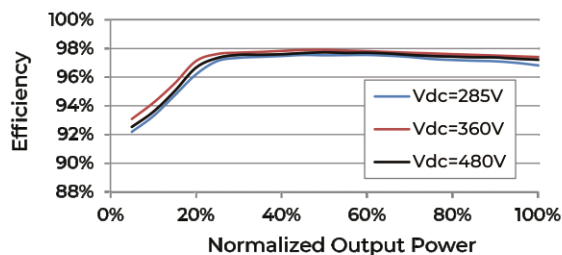
SMART MANAGEMENT

- Real time data (10 seconds refresh sample)
- Remote firmware updates

CIRCUIT DIAGRAM



EFFICIENCY CURVE (SG5.0RS-L)



Type designation	SG4.0RS-L	SG5.0RS-L	SG6.0RS-L
Input (DC)			
Recommended max. PV input power	6 kWp	7.5 kWp	9 kWp
Max. PV input voltage	600 V	600 V	600 V
Min. operating PV voltage / Start-up input voltage		40 V / 50 V	
Rated PV input voltage		360 V	
MPP voltage range		40 V - 560 V	
No. of independent MPP inputs		2	
Default No. of PV strings per MPPT		1	
Max. PV input current		32 A (16 A / 16 A)	
Max. DC short-circuit current		40 A (20 A / 20 A)	
Output (AC)			
Rated AC output power	4000 W	5000 W	6000 W
Max. AC Output power	4000 VA	5000 VA	6000 VA
Rated AC output current (at 220V)	18.2 A	22.8 A	27.3 A
Max. AC output current	18.2 A	22.8 A	27.3 A
Rated AC voltage		220 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	97.9 % / 97.2 %	97.9 % / 97.3 %	97.9 % / 97.5 %
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	
PID Zero function		Yes	
General Data			
Dimensions (W*H*D)		445 mm * 325 mm * 150 mm	
Weight		10.5 kg	
Mounting method		Wall-mounting bracket	
Topology		Transformerless	
Degree of protection		IP65	
Operating ambient temperature range		-25 °C - 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		WLAN	
DC connection type		MC4 Compatible Connector (Max. 6 mm ²)	
AC connection type		Plug and play connector (Max. 6 mm ²)	
Grid compliance		ABNT NBR 16150, PORTARIA Nº 140, DE 21 DE MARÇO DE 2022 IEC/EN 62109-1/2, IEC 61000-6-1/2/3/4, IEC 62116, IEC 61683, IEC 61727, IEC 60068-2-1/2/14/30/64/27, IEC 60529, EN 50530, IS 16169 / IS 16221(BIS)	
Grid Support		Active & reactive power control and power ramp rate control	