

# 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

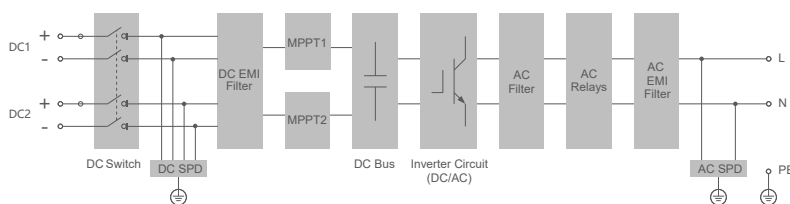
## 💡 USER FRIENDLY SETUP

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

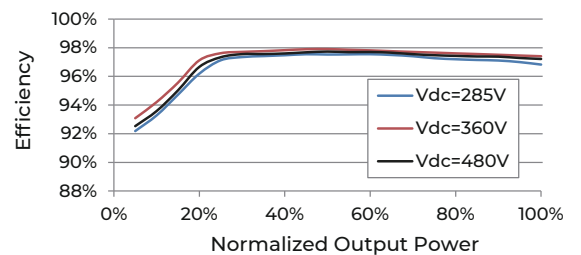
## ⚙️ SMART MANAGEMENT

- 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
<b>Input (DC)</b>			
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)		
<b>Output (AC)</b>			
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		
<b>Efficiency</b>			
Max. efficiency / European efficiency	97.9 % / 97.2 %	97.9 % / 97.3 %	97.9 % / 97.5 %
<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		
DC switch	Yes		
PV string current monitoring	Yes		
PID Zero function	Yes		
<b>General Data</b>			
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 <sup>2</sup> )		
AC connection type	Plug and play connector ( Max. 6 mm <sup>2</sup> )		
Grid compliance	ABNT NBR 16150, PORTARIA N° 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		