

# SG9.0/10RS-L

Inversor string MPPT duplo para sistema de 600 V<sub>cc</sub>



## ☀️ 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

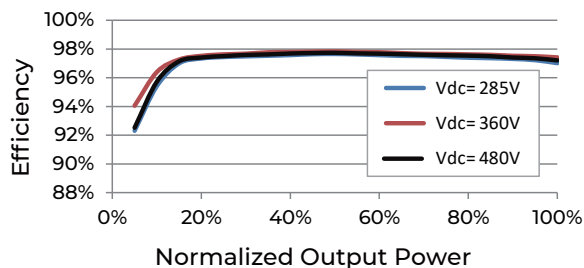
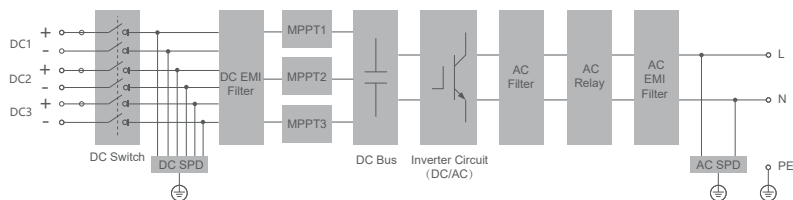
- Plug and play installation
- One-click access to iSolarCloud monitoring platform
- Light and compact with optimized heat dissipation design

## ⚙️ SMART MANAGEMENT

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

## CIRCUIT DIAGRAM

## EFFICIENCY CURVE ( SG10RS-L )



Type designation	SG9.0RS-L	SG10RS-L
<b>Input ( DC )</b>		
Recommended max. PV input power	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	360 V	
MPP voltage range	40 V - 560 V	
No. of independent MPP inputs	3	3
Default No. of PV strings per MPPT	1	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 )	
<b>Output ( AC )</b>		
Rated AC output power	9000 W	10000 W
Max. AC Output power	9000 VA	10000 VA
Rated AC output current ( at 220 V )	41 A	45.5 A
Max. AC output current	41 A	45.5 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	97.8 % / 97.4 %	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	
DC switch	Yes	
PV string current monitoring	Yes	
PID Zero function	Yes	
<b>General Data</b>		
Dimensions ( W * H * D )	525 mm * 365 mm * 170 mm	
Weight	18 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	OT Terminal ( Max. 16 mm <sup>2</sup> )	
Grid compliance	ABNT NBR 16150, PORTARIA N° 140, DE 21 DE MARÇO DE 2022	
Grid Support	Active & reactive power control and power ramp rate control	

