

# SG3.0RS-L

Single-MPPT String Inverter for 600 Vdc System



## ☀️ HIGH YIELD

- Compatible with high power PV 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

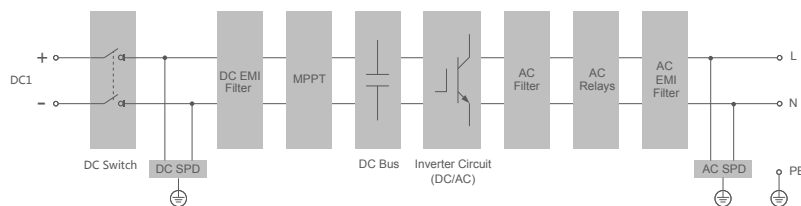
## 💡 USER FRIENDLY SETUP

- Plug and play installation
- One-click access to iSolarCloud monitoring platform
- Light and compact ( A4 Size ) with optimized heat dissipation design

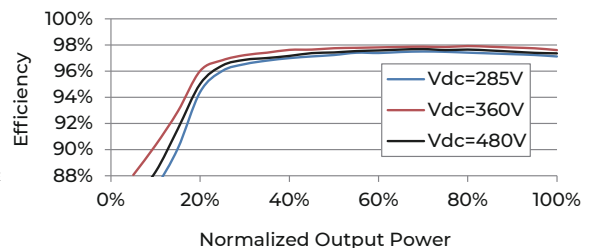
## ⚙️ SMART MANAGEMENT

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

## CIRCUIT DIAGRAM



## EFFICIENCY CURVE ( SG3.0RS-L )



Type designation	SG3.0RS-L
<b>Input ( DC )</b>	
Recommended max. PV input power	4.5 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	1
Default No. of PV strings per MPPT	1
Max. PV input current	16 A
Max. DC short-circuit current	20 A
<b>Output ( AC )</b>	
Rated AC output power	3000 W
Max. AC Output power	3000 VA
Rated AC output current ( at 220 V )	13.7 A
Max. AC output current	13.7 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 % / 97.3 %
<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 )	360 mm * 263 mm * 125.5 mm
Weight	6 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 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