

# SG2.0RS-S

Single-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

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

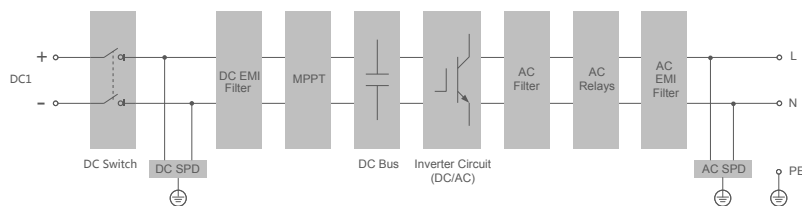
## USER FRIENDLY SETUP

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

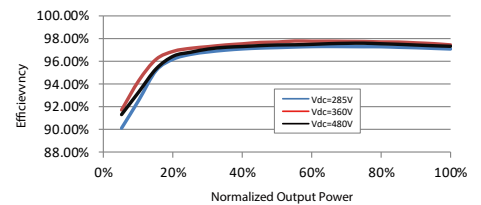
## SMART MANAGEMENT

- 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



Type designation	SG2.0RS-S
<b>Input (DC)</b>	
Recommended max. PV input power	3 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	1
No. of PV strings per MPPT	1
Max. PV input current	16 A
Max. DC short-circuit current	20 A
Max. current for DC connector	30 A
<b>Output (AC)</b>	
Rated AC output power	2000 W
Max. AC output apparent power	2000 VA
Rated AC output apparent power	2000 VA
Max. AC output current	9.1 A
Rated AC output current (at 230V)	8.7 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 %
<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 Zero function	Yes
<b>General data</b>	
Dimensions (W*H*D)	320 mm * 225 mm * 120 mm
Weight	6 kg
Mounting method	Wall-mounting bracket
Topology	Transformerless
Degree of protection	IP65
Corrosion	C5
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	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. 6 mm <sup>2</sup> )
Grid compliance	IEC / EN 62109-1/2, IEC / EN 62116, IEC / EN 61727, IEC / EN 61000-6-2/3, EN 50549-1, AS/NZS 4777.2:2020, ABNT NBR 16149, ABNT NBR 16150, UNE 217002:2020, NTS V2 TypeA, CEI 0-21:2020, VDE 0126-1-1/A1(VFR-2019), UTE C15-712, C10/11, G98/G99
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

