

SG3.0/4.0/5.0/6.0RS-L2

String Inverter for 600 Vdc System



High Yield

- DC 20A current input, adaptable to all PV modules
- AC output 1.1 times overload
- Wider output voltage range, complex grid more power generation



User Friendly Setup

- Plug and play installation
- One-click access to iSolarCloud monitoring platform
- Lightweight and compact



Safe and Reliable

- Built-in Type II DC & AC SPD
- IP65



Smart Management

- Real time data (10 seconds refresh sample)
- Zero feed-in Support



Technical Data Sheet	SG3.0RS-L2	SG4.0RS-L2	SG5.0RS-L2	SG6.0RS-L2
Input (DC)				
Max.PV Input voltage*	600 V			
Min. operating PV voltage / Start-up input voltage	40 V / 50 V			
Rated PV input voltage	360 V			
MPPT operating voltage range**	40 V - 560 V			
No. of independent MPP trackers	1	2	2	2
No. of PV strings per MPPT	1			
Max. PV input current	20 A	40 A (20 A / 20 A)	40 A (20 A / 20 A)	40A (20 A / 20 A)
Max. DC short-circuit current	25 A	50 A (25 A / 25 A)	50 A (25 A / 25 A)	50A (25 A / 25 A)
Output (AC)				
Rated AC output power	3000 W	4000 W	5000 W	6000 W
Max. AC output apparent power	3300 VA	4400 VA	5500 VA	6600 VA
Rated AC output current (at 220V)	13.7 A	18.2 A	22.8 A	27.3 A
Max. AC output current	15 A	20 A	25 A	28.7 A
Rated AC voltage	220 V / 230V / 240 V			
AC voltage range	154 V - 300 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 / AC connection	1 / 1			
Efficiency				
Max. efficiency	97.10 %	97.20 %	97.20 %	97.20 %
Protection				
Grid monitoring	Yes			
DC reverse polarity protection	Yes			
AC short-circuit protection	Yes			
Leakage current protection	Yes			
AFCI	Yes, conforming to IEC 63027			
Surge protection	DC type II / AC type II			
DC switch	Yes			
PV string current monitoring	Yes			
PID Zero	Yes			
General Data				
Dimensions (W * H * D)	476 mm * 315 mm * 159 mm			
Weight	8.6 kg			
Mounting method	Wall-mounting			
Topology	Transformerless			
Degree of protection	IP65			
Operating ambient temperature range	-25 °C to 60 °C			
Allowable relative humidity range (non-condensing)	0 - 100 %			
Cooling method	Natural cooling			
Max. operating altitude	4000 m			
Display	LED indicator			
Communication	WLAN / RS485			
DC connection type	MC4 Compatible Connector (Max. 6 mm²)			
AC connection type	Plug and play connector (Max. 12 mm²)			
Grid compliance	IEC 63027			
Grid Support	Active & reactive power control and power ramp rate control			

* Input voltage exceeding the MPPT operating voltage range triggers inverter protection

** Please refer to the user manual for the full load MPPT voltage range

***The maximum input power in kWp supported by the inverter is related to the maximum voltage and short-circuit current limits per MPPT