

SG3.0RS-L-IN

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

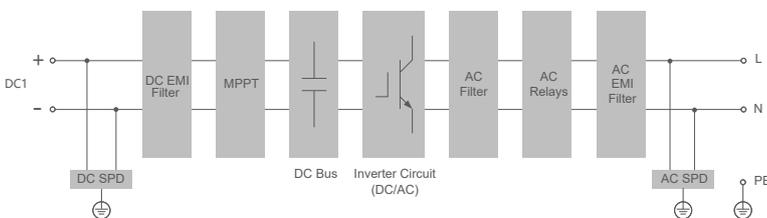
USER FRIENDLY SETUP

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

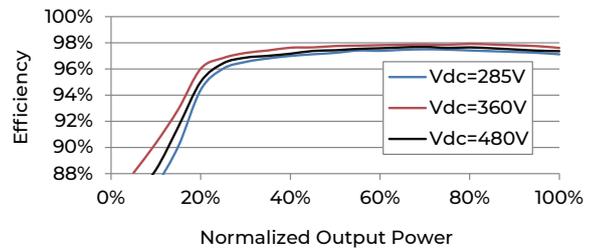
SMART MANAGEMENT

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

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG3.0RS-L-IN
Input (DC)	
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
MPPT operating voltage range **	40 V - 560 V
No. of independent MPP trackers	1
No. of PV strings per MPPT	1
Max. PV input current	16 A
Max. DC short-circuit current	20 A
Output (AC)	
Rated AC output power	3000 W
Max. AC output apparent power	3000 VA
Rated AC output current (at 220V)	13.7 A
Max. AC output current	13.7 A
Rated AC voltage	220 V / 230 V / 240 V
AC voltage range	154 V - 276 V
Rated grid frequency / Grid frequency range	50 Hz / 45 Hz - 55 Hz, 60 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 / AC connection	1 / 1
Efficiency	
Max. efficiency / European efficiency	97.8 % / 97.3 %
Protection	
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	No
PV string current monitoring	Yes
PID Zero	Yes
General Data	
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 ²)
AC connection type	Plug and play connector (Max. 6 mm ²)
Grid compliance	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

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

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