

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



User Friendly Setup

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



Safe and Reliable

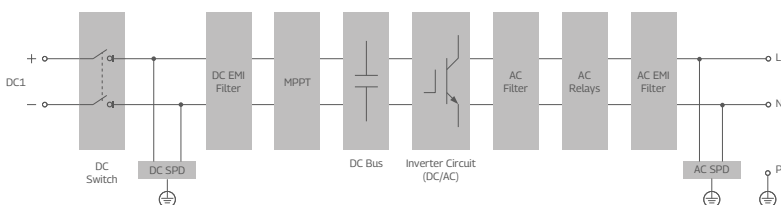
- Built-in Type II DC & AC SPD
- IP65, indoor & outdoor installation



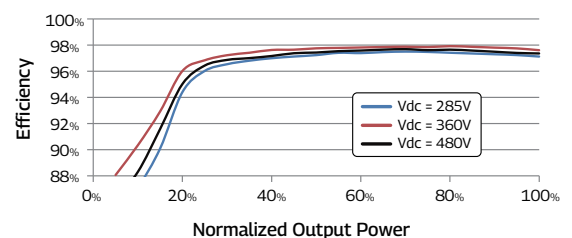
Smart Management

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

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type Designation	SG3.0RS-L
Input (DC)	
Recommended max. PV input power	4.5 kWp
Max. PV input voltage	600 V *
Min. PV input voltage / Start-up input voltage	40 V / 50 V
Rated PV input voltage	360 V
MPP voltage range	40 V - 650 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
Output (AC)	
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
Efficiency	
Max efficiency	97.8%
European efficiency	97.3%
Protection & Function	
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

Type Designation	SG3.0RS-L
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 mm²)
AC connection type	Plug and play connector (Max. 6 mm²)
Grid Compliance	ABNT NBR 16150, PORTARIA Nº 140, DE 21 DE MARÇO DE 2022IEC/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