

## SG4.0/5.0/6.0RS-L

Double-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



### User Friendly Setup

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



### Safe and Reliable

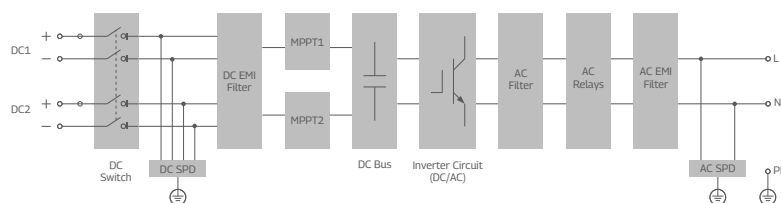
- Built-in Type II DC & AC SPD
- IP65, indoor & outdoor installation



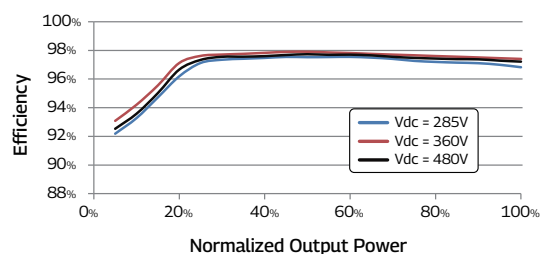
### Smart Management

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

### CIRCUIT DIAGRAM



### EFFICIENCY CURVE (SG5.0RS-L)



| Type Designation                                      | SG4.0RS-L                              | SG5.0RS-L | SG6.0RS-L |
|-------------------------------------------------------|----------------------------------------|-----------|-----------|
| <b>Input (DC)</b>                                     |                                        |           |           |
| Recommended max. PV input power                       | 6 kWp                                  | 7.5 kWp   | 9 kWp     |
| Max. PV input voltage                                 | 600 V                                  | 600 V     | 600 V     |
| Min. PV input voltage / Start-up input voltage        | 40 V / 50 V                            |           |           |
| Rated input voltage                                   | 360 V                                  |           |           |
| MPP voltage range                                     | 40 V - 560 V                           |           |           |
| No. of independent MPP inputs                         | 2                                      |           |           |
| Default No. of PV strings per MPPT                    | 1                                      |           |           |
| Max. PV input current                                 | 32 A (16 A / 16 A)                     |           |           |
| Max. DC short-circuit current                         | 40 A (20 A / 20 A)                     |           |           |
| <b>Output (AC)</b>                                    |                                        |           |           |
| Rated AC output power                                 | 4000 W                                 | 5000 W    | 6000 W    |
| Max. AC Output power                                  | 4000 VA                                | 5000 VA   | 6000 VA   |
| Rated AC output current (at 220V)                     | 18.2 A                                 | 22.8 A    | 27.3 A    |
| Max. AC output current                                | 18.2 A                                 | 22.8 A    | 27.3 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                                        | 97.9%                                  | 97.9%     | 97.9%     |
| European efficiency                                   | 97.2%                                  | 97.3%     | 97.5%     |
| <b>Protection &amp; Function</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                                    |           |           |

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|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|
| General Data                                       |                                                                                                                                                                                                           |           |           |
| Dimensions (W*H*D)                                 | 445 mm * 325 mm * 150 mm                                                                                                                                                                                  |           |           |
| Weight                                             | 10.5 kg                                                                                                                                                                                                   |           |           |
| Mounting method                                    | Wall-mounting bracket                                                                                                                                                                                     |           |           |
| 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 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                                                                                                                                               |           |           |