

SG15/17/20RT

Multi-MPPT String Inverter for 1000 Vdc System



HIGH YIELD

- Lower startup & wider MPPT voltage
- Compatible with bifacial modules
- Built-in PID recovery function



SMART MANAGEMENT

- Smart IV curve scanning
- 24 / 7 Live monitoring
- Remote firmware updates



SAFE AND DURABLE

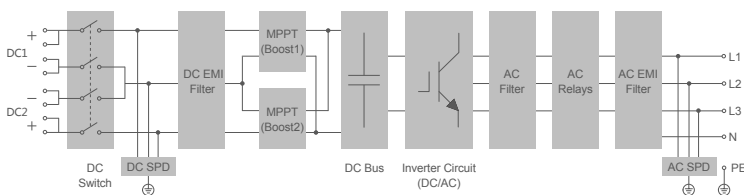
- Quick arc fault circuit interrupter
- Built-in Type II DC & AC SPD
- High anti-corrosion rating C5



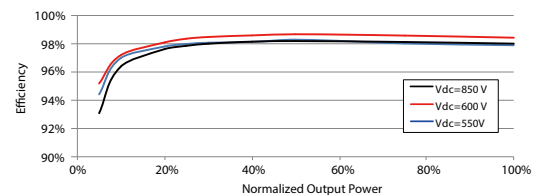
EASY AND USER FRIENDLY

- 21 kg compact design
- Unique push-in connectors
- Fast and easy commissioning via App

CIRCUIT DIAGRAM



EFFICIENCY CURVE



| Type designation | SG15RT | SG17RT | SG20RT |
|--|-----------|---|-----------|
| Input (DC) | | | |
| Recommended max. PV input power | 22.5kW | 25.5 kW | 30 kW |
| Max. PV input voltage | | 1100 V* | |
| Min. PV input voltage / Start-up input voltage | | 180 V | |
| Nominal input voltage | | 600 V | |
| MPP voltage range | | 160 V – 1000 V | |
| No. of independent MPP inputs | | 2 | |
| No. of PV strings per MPPT | | 2 / 2 | |
| Max. PV input current | | 50 A (25 A / 25 A) | |
| Max. current for input connector | | 30A | |
| Max. DC short-circuit current | | 64 A (32 A / 32 A) | |
| Output (AC) | | | |
| Nominal AC power (@230 V, 50 Hz) | 15000 W | 17000 W | 20000 W |
| Max. AC output power | 16500 VA* | 18700 VA* | 22000 VA* |
| Max. AC output current | 25 A | 28.3 A | 31.9 A |
| Nominal AC voltage | | 3 / N / PE, 220 / 380 V 3 / N / PE, 230 / 400 V 3 / N / PE, 240 / 415 V | |
| AC voltage range | | 180 V – 276 V** | |
| Nominal grid frequency / Grid frequency range | | 50 Hz / 45 – 55 Hz 60 Hz / 55 – 65 Hz | |
| Harmonic(THD) | | <3 % (at nominal power) | |
| Power factor at nominal power / Adjustable power factor | | >0.99 / 0.8 leading – 0.8 lagging | |
| Feed-in phases / AC connection | | 3 / 3 | |
| Efficiency | | | |
| Max. efficiency | | 98.50 % | |
| European efficiency | | 98.10 % | |
| Protection | | | |
| Grid monitoring | | Yes | |
| DC reverse connection protection | | Yes | |
| AC short-circuit protection | | Yes | |
| Leakage current protection | | Yes | |
| Surge Protection | | DC Type II / AC Type II | |
| DC switch | | Yes | |
| Arc fault circuit interrupter (AFCI) | | Yes | |
| PID recovery function | | Yes | |
| General Data | | | |
| Dimensions (W*H*D) | | 370*480*195 mm | |
| Mounting method | | Wall-mounting bracket | |
| Weight | | 21 kg | |
| Topology | | Transformerless | |
| Degree of protection | | IP65 | |
| Operating ambient temperature range | | -25 °C to 60 °C | |
| Allowable relative humidity range | | 0% – 100% | |
| Cooling method | | Smart forced air cooling | |
| Max. operating altitude | | 4000 m (> 2000 m derating) | |
| Noise (Typical) | | 45dB(A) | |
| Display | | LED | |
| Communication | | WLAN, Ethernet, RS485, DI, DO | |
| DC connection type | | MC4 | |
| AC connection type | | Plug and play | |
| Compliance | | EN 61000-6-1/-3, IEC62109-2, IEC 61727, IEC 62116, AS/NZS 4777.2:2015, VDE-AR-N-4105, DIN VDE0126-1-1, CEI 0-21, EN50549-1 | |

*: For Australia & Belgium & Germany, max. AC output power: SG15RT is 15000VA, SG17RT is 17000VA, SG20RT is 20000VA.

**: Phase to neutral voltage