

# MODEL SG-20KWT

## INVERTERS



|                                |                                                                 |
|--------------------------------|-----------------------------------------------------------------|
| Efficiency                     |                                                                 |
| Max. Efficiency                | 98.4%                                                           |
| European efficiency            | 98.0%                                                           |
| Inputs (PV)                    |                                                                 |
| Max. input voltage             | 1100V                                                           |
| Max. PV configuration (STC)    | 150%                                                            |
| Rated input voltage            | 620V                                                            |
| Max. Input current             | 2*30A                                                           |
| Max short circuit current      | 2*40A                                                           |
| Starting input voltage         | 180V                                                            |
| MPPT operating voltage range   | 160V-1000V                                                      |
| Max. number of PV strings      | 4 (2/2)                                                         |
| No. of MPPTs                   | 2                                                               |
| Outputs (network)              |                                                                 |
| Nominal AC active power        | <b>20000W</b>                                                   |
| Max. AC apparent power         | 22000VA                                                         |
| Max. AC active power (PF=1)    | 22000W                                                          |
| Max. AC output current         | 3*33.7A                                                         |
| AC rated voltage               | 380V / 400V / 415V, 3W+N+PE                                     |
| AC voltage range (1)           | 260V-510V (Adjustable)                                          |
| Nominal grid frequency         | 50Hz/ 60Hz                                                      |
| Network frequency range(2)     | 45Hz-55Hz/55Hz-65Hz (Adjustable)                                |
| THDI                           | <3%@Rated Power                                                 |
| DC injection                   | <0.5%@Rated Current                                             |
| Power factor                   | >0.99 Rated power (Adjustable 0.8 LD-0.8 LG)                    |
| Protection                     |                                                                 |
| DC switch                      | Yes                                                             |
| Anti-island protection         | Yes                                                             |
| AC overcurrent protection      | Yes                                                             |
| AC short circuit protection    | Yes                                                             |
| DC reverse connection          | Yes                                                             |
| Surge arrester                 | AC Type III (Type II optional) / DC Type III (Type II optional) |
| Insulation control             | Yes                                                             |
| Leakage current protection     | Yes                                                             |
| General                        |                                                                 |
| Typology                       | Transformerless                                                 |
| Environmental protection grade | IP66                                                            |
| Nocturnal self-consumption     | <1W                                                             |
| Cooling mode                   | Fan cooling                                                     |
| Operating temperature range    | -25°C-60°C                                                      |
| Relative humidity range        | 0-100%                                                          |
| Max. operating altitude        | 4000m                                                           |
| Noise (typical)                | <45dB                                                           |
| Dimensions (W*H*D)             | 398mm*460mm*190mm                                               |
| Weight                         | 23Kg                                                            |
| HMI & COM                      |                                                                 |
| Display                        | Wireless & APP+LED, LCD (Optional)                              |
| Communication                  | RS485, Optional: WiFi / GPRS / 4G                               |
| Certification                  |                                                                 |
| Safety                         | IEC62109-1/2                                                    |
| Grid                           | IEC 61000-1/2/3/4, IEC 61727/62116, CEI 021                     |
| Warranty                       | 5 /10 years (optional)                                          |

\*The output voltage and frequency range may vary according to different grid codes.

\*Specifications are subject to change without notice.

*designed in Italy*