

# Three Phase String Inverter

SUN- 12 / 15 K-G03



2 MPP tracker, Max. efficiency up to 98.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



*Clean Power For You*

| Model                                    | SUN-12K-G03                                                                                                            | SUN-15K-G03 |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------|
| Input Side                               |                                                                                                                        |             |
| Max. DC Input Power (kW)                 | 15.6                                                                                                                   | 19.5        |
| Max. DC Input Voltage (V)                | 1000                                                                                                                   |             |
| Start-up DC Input Voltage (V)            | 250                                                                                                                    |             |
| MPPT Operating Range (V)                 | 200~850                                                                                                                |             |
| Max. DC Input Current (A)                | 11+22                                                                                                                  |             |
| Max. Short Circuit Current (A)           | 16.5+33                                                                                                                |             |
| Number of MPPT / Strings per MPPT        | 2 / 1+2                                                                                                                |             |
| Output Side                              |                                                                                                                        |             |
| Rated Output Power (kW)                  | 12                                                                                                                     | 15          |
| Max. Active Power (kW)                   | 13.2                                                                                                                   | 16.5        |
| Rated AC Grid Voltage (V)                | 220 / 380, 230 / 400                                                                                                   |             |
| AC Grid Voltage Range (V)                | 277Vac~460Vac (this may vary with grid standards)                                                                      |             |
| Rated Grid Frequency (Hz)                | 50 / 60 (Optional)                                                                                                     |             |
| Operating Phase                          | Three phase                                                                                                            |             |
| Rated AC Grid Output Current (A)         | 17.4                                                                                                                   | 21.8        |
| Max. AC Output Current (A)               | 19.1                                                                                                                   | 23.9        |
| Output Power Factor                      | 0.8 leading to 0.8 lagging                                                                                             |             |
| Grid Current THD                         | <3%                                                                                                                    |             |
| DC Injection Current (mA)                | <0.5%                                                                                                                  |             |
| Grid Frequency Range                     | 47~52 or 57~62 (Optional)                                                                                              |             |
| Efficiency                               |                                                                                                                        |             |
| Max. Efficiency                          | 98.5%                                                                                                                  |             |
| Euro Efficiency                          | 97.5%                                                                                                                  |             |
| MPPT Efficiency                          | >99%                                                                                                                   |             |
| Protection                               |                                                                                                                        |             |
| DC Reverse-Polarity Protection           | Yes                                                                                                                    |             |
| AC Short Circuit Protection              | Yes                                                                                                                    |             |
| AC Output Overcurrent Protection         | Yes                                                                                                                    |             |
| Output Overvoltage Protection            | Yes                                                                                                                    |             |
| Insulation Resistance Protection         | Yes                                                                                                                    |             |
| Ground Fault Monitoring                  | Yes                                                                                                                    |             |
| Anti-islanding Protection                | Yes                                                                                                                    |             |
| Temperature Protection                   | Yes                                                                                                                    |             |
| Integrated DC Switch                     | Yes                                                                                                                    |             |
| Remote software upload                   | Yes                                                                                                                    |             |
| Remote change of operating parameters    | Yes                                                                                                                    |             |
| Surge protection                         | DC Type II / AC Type II                                                                                                |             |
| General Data                             |                                                                                                                        |             |
| Size (mm)                                | 330W×430H×193.5D                                                                                                       |             |
| Weight (kg)                              | 17                                                                                                                     |             |
| Topology                                 | Transformerless                                                                                                        |             |
| Internal Consumption                     | <1W (Night)                                                                                                            |             |
| Running Temperature                      | -25~65°C                                                                                                               |             |
| Ingress Protection                       | IP65                                                                                                                   |             |
| Noise Emission (Typical)                 | <45 dB                                                                                                                 |             |
| Cooling Concept                          | Smart cooling                                                                                                          |             |
| Max. Operating Altitude Without Derating | 2000m                                                                                                                  |             |
| Designed Lifetime                        | >20 years                                                                                                              |             |
| Grid Connection Standard                 | EN50549-1, IEC61727, IEC62116, IEC60068, IEC61683, VDE 0126-1-1, RD1699, UNE 206006 IN, UNE 206007-1 IN, UNE 217001 IN |             |
| Operating Surroundings Humidity          | 0-100%                                                                                                                 |             |
| Safety EMC / Standard                    | IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12                                                |             |
| Features                                 |                                                                                                                        |             |
| DC Connection                            | MC-4 mateable                                                                                                          |             |
| AC Connection                            | IP65 rated plug                                                                                                        |             |
| Display                                  | LCD1602                                                                                                                |             |
| Interface                                | RS485/RS232/Wifi/LAN                                                                                                   |             |