

# Three Phase String Inverter

FU-SUN- 4 / 5 / 6 / 7 / 8 / 10 / 12 K-G05-P



2 MPP trackers, Max. efficiency up to 98.3%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

| Model                                    | FU-SUN-4K-G05-P   | FU-SUN-5K-G05-P | FU-SUN-6K-G05-P | FU-SUN-7K-G05-P | FU-SUN-8K-G05-P | FU-SUN-10K-G05-P | FU-SUN-12K-G05-P |
|--|---|-----------------|-----------------|-----------------|-----------------|------------------|------------------|
| <b>Input Side</b>                        |   |                 |                 |                 |                 |                  |                  |
| Max. DC Input Power (kW)                 | 5.2   | 6.5             | 7.8             | 9.1             | 10.4            | 13               | 15.6             |
| Max. DC Input Voltage (V)                | 1000  |                 |                 |                 |                 |                  |                  |
| Start-up DC Input Voltage (V)            | 140   |                 |                 |                 |                 |                  | 250              |
| MPPT Operating Range (V)                 | 120~850   |                 |                 |                 |                 |                  | 200~850          |
| Max. DC Input Current (A)                | 20+20   |                 |                 |                 |                 |                  |                  |
| Max. Short Circuit Current (A)           | 30+30   |                 |                 |                 |                 |                  |                  |
| No.of MPP Trackers                       | 2   |                 |                 |                 |                 |                  |                  |
| No.of Strings per MPP Tracker            | 1   |                 |                 |                 |                 |                  |                  |
| <b>Output Side</b>                       |   |                 |                 |                 |                 |                  |                  |
| Rated Output Power (kW)                  | 4   | 5               | 6               | 7               | 8               | 10               | 12               |
| Max. Active Power (kW)                   | 4.4   | 5.5             | 6.6             | 7.7             | 8.8             | 11               | 13.2             |
| Nominal Output Voltage / Range (V)       | 3L/N/PE 380V/0.85Un-1.1Un, 400V/0.85Un-1.1Un  |                 |                 |                 |                 |                  |                  |
| Rated Grid Frequency (Hz)                | 50 / 60 (Optional)  |                 |                 |                 |                 |                  |                  |
| Operating Phase                          | Three phase   |                 |                 |                 |                 |                  |                  |
| Rated AC Grid Output Current (A)         | 5.8   | 7.2             | 8.7             | 10.1            | 11.6            | 14.5             | 17.4             |
| Max. AC Output Current (A)               | 6.4   | 8               | 9.6             | 11.1            | 12.8            | 15.9             | 19.1             |
| 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)   |                 |                 |                 |                 |                  |                  |
| <b>Efficiency</b>                        |   |                 |                 |                 |                 |                  |                  |
| Max. Efficiency                          | 98.3%   |                 |                 |                 |                 |                  |                  |
| Euro Efficiency                          | 97.5%   |                 |                 |                 |                 |                  |                  |
| MPPT Efficiency                          | >99%  |                 |                 |                 |                 |                  |                  |
| <b>Protection</b>                        |   |                 |                 |                 |                 |                  |                  |
| 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   |                 |                 |                 |                 |                  |                  |
| <b>General Data</b>                      |   |                 |                 |                 |                 |                  |                  |
| Size (mm)                                | 330W×457H×185D  |                 |                 |                 |                 |                  | 330×457×205      |
| Weight (kg)                              | 10  |                 |                 |                 |                 |                  | 11               |
| Topology                                 | Transformerless   |                 |                 |                 |                 |                  |                  |
| Internal Consumption                     | <1W (Night)   |                 |                 |                 |                 |                  |                  |
| Running Temperature                      | -25~65°C, >45°C derating  |                 |                 |                 |                 |                  |                  |
| Ingress Protection                       | IP65  |                 |                 |                 |                 |                  |                  |
| Noise Emission (Typical)                 | <30 dB  |                 |                 |                 |                 |                  |                  |
| Cooling Concept                          | Natural cooling   |                 |                 |                 |                 |                  |                  |
| Max. Operating Altitude Without Derating | 2000m   |                 |                 |                 |                 |                  |                  |
| Warranty                                 | 5 years   |                 |                 |                 |                 |                  |                  |
| Grid Connection Standard                 | CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11 |                 |                 |                 |                 |                  |                  |
| Operating Surroundings Humidity          | 0-100%  |                 |                 |                 |                 |                  |                  |
| Safety EMC / Standard                    | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2  |                 |                 |                 |                 |                  |                  |
| <b>Features</b>                          |   |                 |                 |                 |                 |                  |                  |
| DC Connection                            | MC-4 mateable   |                 |                 |                 |                 |                  |                  |
| AC Connection                            | IP65 rated plug   |                 |                 |                 |                 |                  |                  |
| Display                                  | LCD1602   |                 |                 |                 |                 |                  |                  |
| Interface                                | RS485/RS232/Wifi/LAN  |                 |                 |                 |                 |                  |                  |