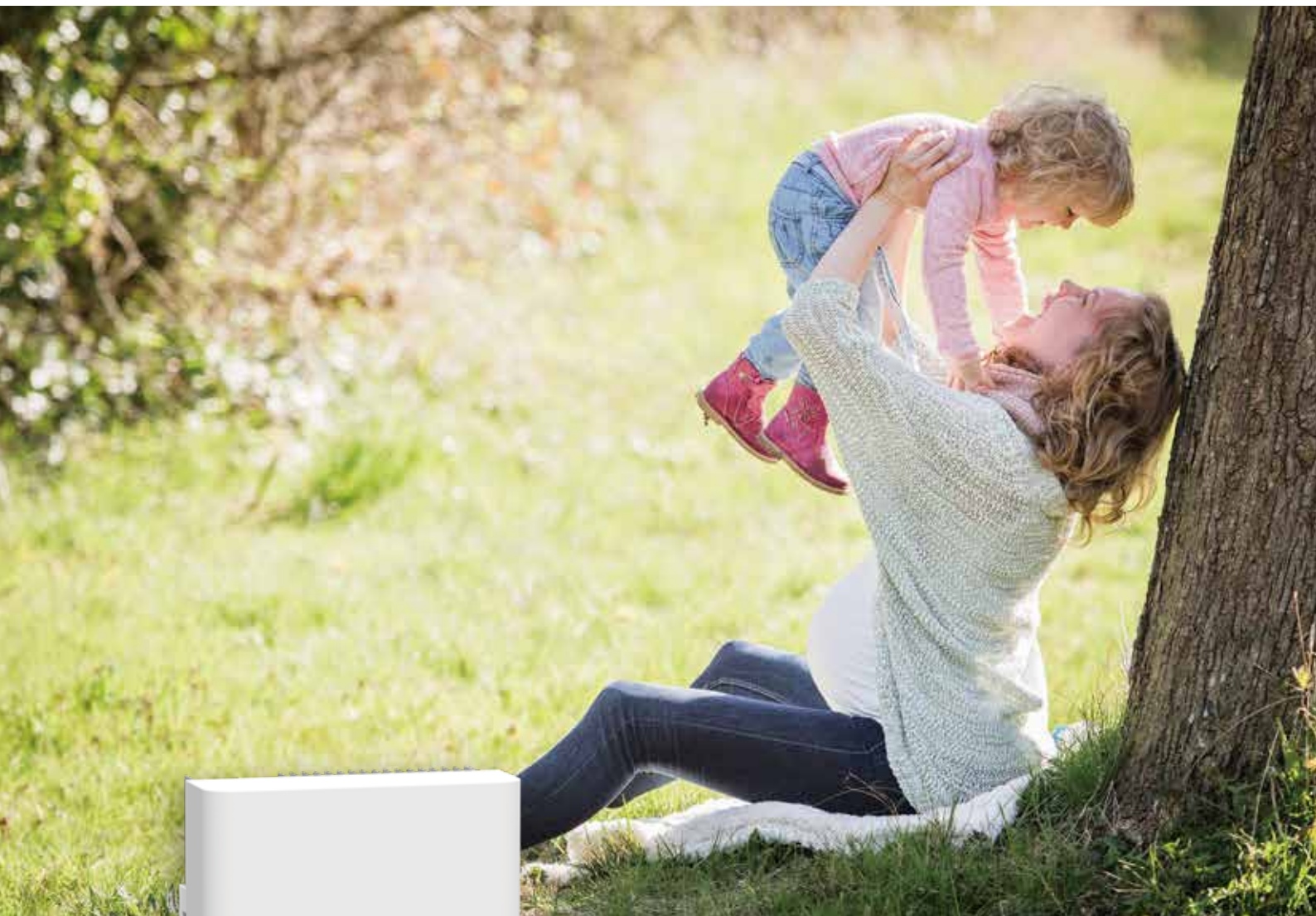


# Three Phase String Inverter

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)

**Deye**

Stock Code: 605117.SH

| Model                                    | SUN-4K-G05-P                                                                                    | SUN-5K-G05-P | SUN-6K-G05-P | SUN-7K-G05-P | SUN-8K-G05-P | SUN-10K-G05-P | SUN-12K-G05-P |
|------------------------------------------|-------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|---------------|---------------|
| Input Side                               |                                                                                                 |              |              |              |              |               |               |
| 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                                                                                               |              |              |              |              |               |               |
| Output Side                              |                                                                                                 |              |              |              |              |               |               |
| 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 220/380V, 230/400V                                                                      |              |              |              |              |               |               |
| Rated Grid Frequency (Hz)                | 50 / 60 (Optional)                                                                              |              |              |              |              |               |               |
| Operating Phase                          | Three phase                                                                                     |              |              |              |              |               |               |
| Rated AC Grid Output Current (A)         | 6.1/5.8                                                                                         | 7.6/7.2      | 9.1/8.7      | 10.6/10.1    | 12.1/11.6    | 15.2/14.5     | 18.2/17.4     |
| Max. AC Output Current (A)               | 6.7/6.4                                                                                         | 8.3/8        | 10/9.6       | 11.7/11.1    | 13.3/12.8    | 16.7/15.9     | 20/19.1       |
| 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)                                                                       |              |              |              |              |               |               |
| Efficiency                               |                                                                                                 |              |              |              |              |               |               |
| Max. Efficiency                          | 98.3%                                                                                           |              |              |              |              |               |               |
| 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×457H×185D                                                                                  |              |              |              |              |               | 330×457×205   |
| Weight (kg)                              | 10                                                                                              |              |              |              |              |               | 11            |
| Topology                                 | Transformerless                                                                                 |              |              |              |              |               |               |
| Internal Consumption                     | <1W (Night)                                                                                     |              |              |              |              |               |               |
| Running Temperature                      | -25~65 , >45 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                                          |              |              |              |              |               |               |
| Features                                 |                                                                                                 |              |              |              |              |               |               |
| DC Connection                            | MC-4 mateable                                                                                   |              |              |              |              |               |               |
| AC Connection                            | IP65 rated plug                                                                                 |              |              |              |              |               |               |
| Display                                  | LCD1602                                                                                         |              |              |              |              |               |               |
| Interface                                | RS485/RS232/Wifi/LAN                                                                            |              |              |              |              |               |               |